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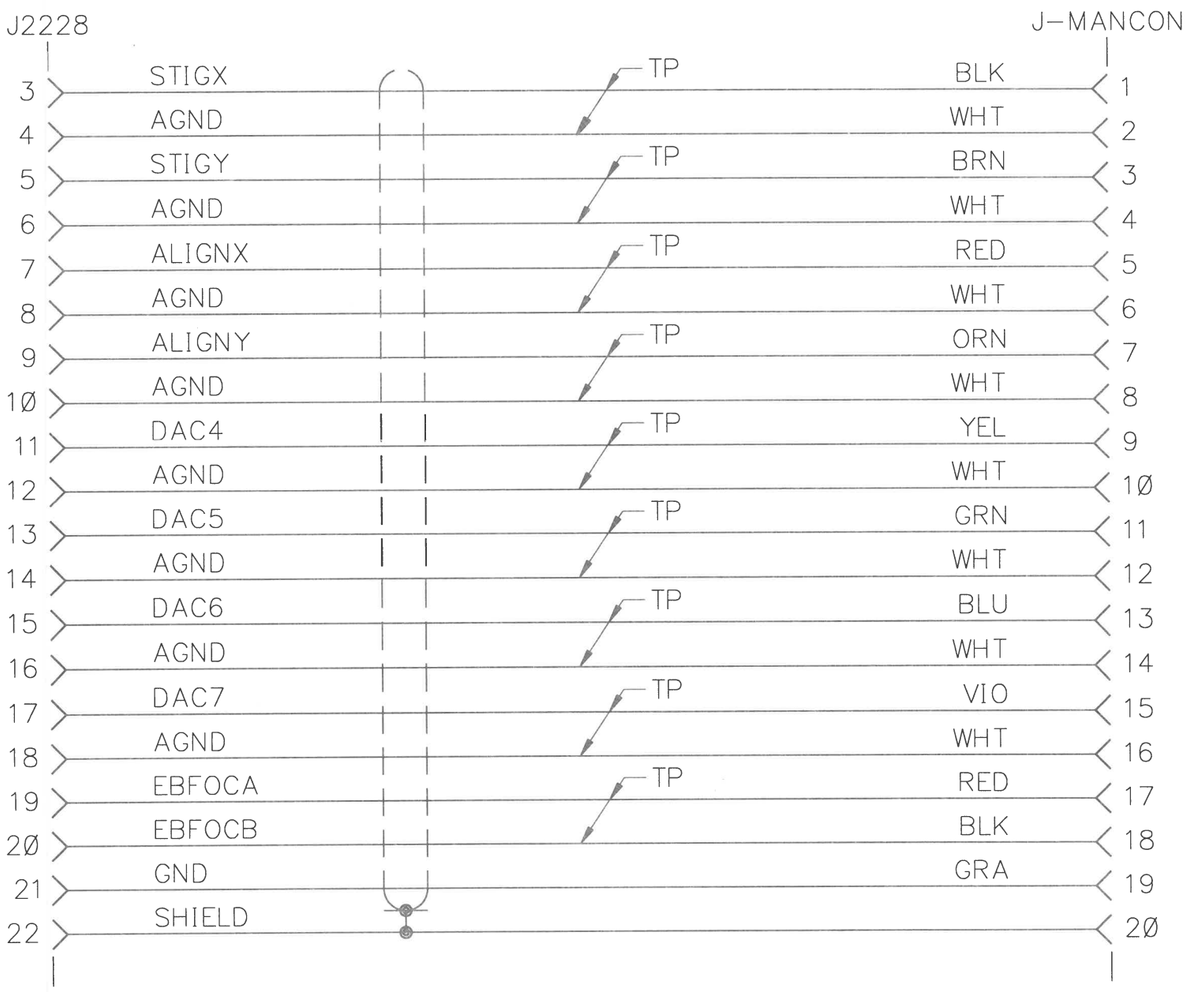
THIRD ANGLE PROJECTION

DO NOT SCALE THIS DRAWING

REVISIONS

ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
497Ø	RELEASED			


J2228
J-MANCON
3 STIGX TP BLK 1
4 AGND WHT 2
5 STIGY TP BRN 3
6 AGND WHT 4
7 ALIGNX TP RED 5
8 AGND WHT 6
9 ALIGNY TP ORN 7
1Ø AGND WHT 8
11 DAC4 TP YEL 9
12 AGND WHT 1Ø
13 DAC5 TP GRN 11
14 AGND WHT 12
15 DAC6 TP BLU 13
16 AGND WHT 14
17 DAC7 TP VIO 15
18 AGND WHT 16
19 EBFOCA TP RED 17
2Ø EBFOCB BLK 18
21 GND GRA 19
22 SHIELD 2Ø

UNLESS OTHERWISE SPECIFIED

.X [X]	± –	X/X	± –
.XX [X.X]	± –	X°	± –
.XXX [X.XX]	± –	FINISH	√

DIMENSIONS IN INCHES [mm] CONCENTRICITY .ØØ5 TIR
DEBURR AND BREAK ALL SHARP EDGES

FABRICATION NOTES

		DRFTR	DATE
		M.D. REGILLO	1/17/96
		CHKR	
		MECH ENGR	
		ELEC ENGR	
16Ø-ØØ625Ø	9ØØØEX	MFG ENGR	
NEXT ASSY	SYSTEM		
APPLICATION		APPROVED	
MATERIAL	–		
FINISH	–		

163-ØØ625Ø	A
PART NUMBER	REV
PART REV LEVEL	

Micrion

TITLE
9ØØØEX-ELEX MOD-
EBEAM MANCON HARN

SIZE	DRAWING NO.
B	163-ØØ625Ø

SCALE	NONE	WT	SHEET 1 OF 1

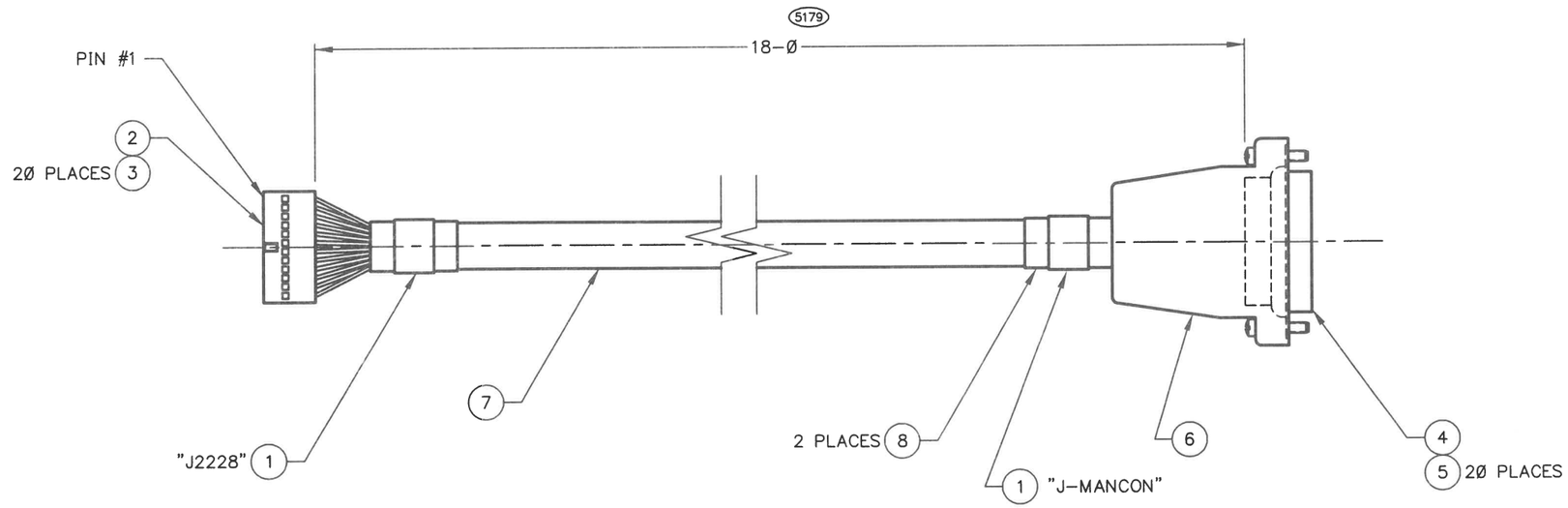
FABRICATION NOTES

1– FABRICATE HARNESS PER MICRION STANDARD 830–ØØØ22Ø.

2– FOR ASSOCIATED SCHEMATIC, SEE MICRION DRAWING NUMBER 163–ØØ625Ø.

3– FOR ASSOCIATED WIRE RUN LIST, SEE MICRION DRAWING NUMBER 164–ØØ625Ø.

REVISIONS				
DO NOT FABRICATE THIS PART IF "ENGR APPR" SIGNATURE IS MISSING FROM MOST RECENT REVISION				
ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	ENGR APPR
497Ø	RELEASED		2/6/96	R.ROSS
(5179)	PER MARKED PRINT	JFC		



REFERENCE SCALE (INCHES) 0 1 2 3 4 5 6

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

ALL DIMENSIONS ARE FEET–INCHES

LENGTH	TOLERANCE
< 24"	+1/2" –Ø
24" – 12Ø"	+2" –Ø
> 12Ø"	+4" –Ø

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16Ø–ØØ625Ø	9ØØØEX
NEXT ASSY	SYSTEM
APPLICATION	

DRFTR	M.D.REGILLO	DATE 1/17/96
CHKR		
MECH ENGR		
ELEC ENGR		
MFG ENGR		
HARNESS ENGR		
APPROVALS		

165–ØØ625Ø	A1
PART NUMBER	REV
PART REV LEVEL	

Micrion

TITLE
9ØØØEX–ELEX MOD–EBEAM MANCON HARN

SIZE	DRAWING NO.
C	165–ØØ625Ø

SCALE: FULL | WT: | SHEET 1 OF 1

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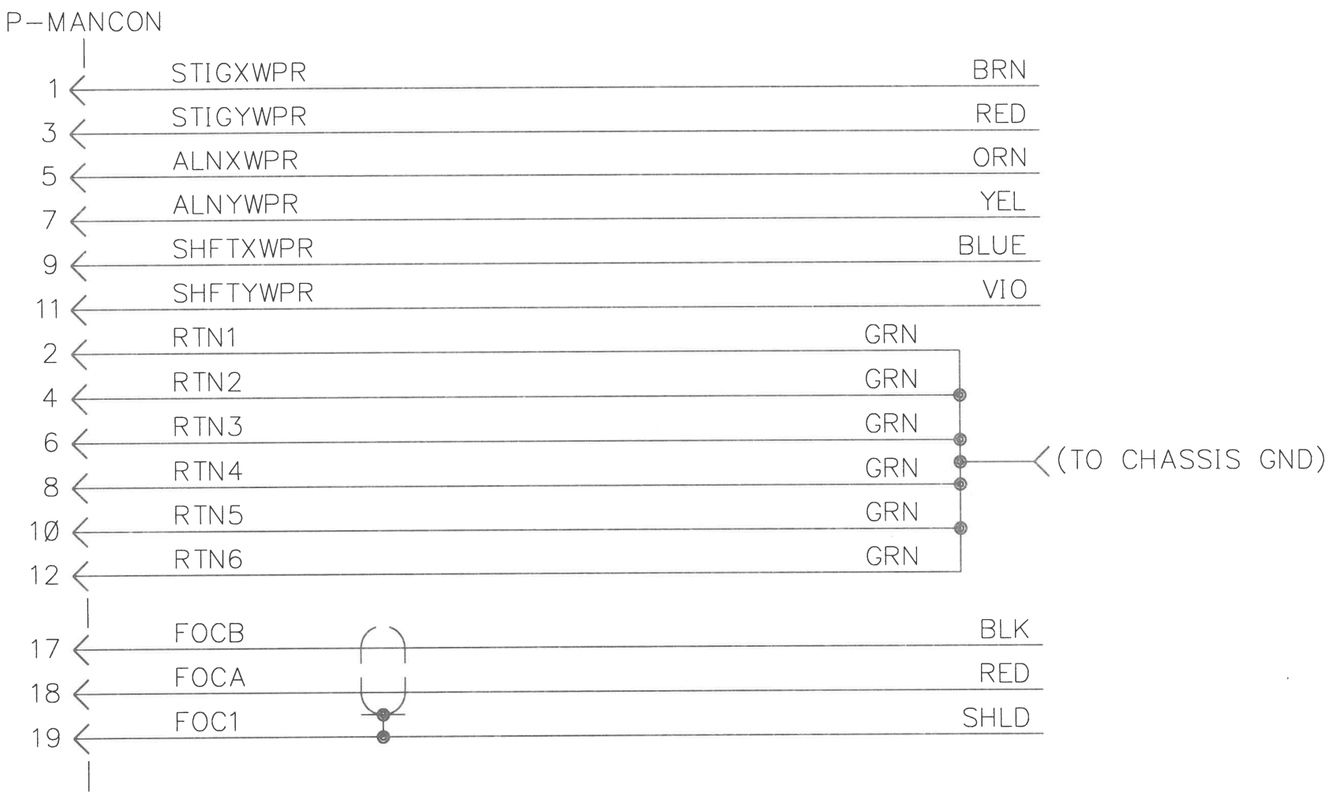
THIRD ANGLE PROJECTION

DO NOT SCALE THIS DRAWING

REVISIONS

ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
4935	RELEASED			



UNLESS OTHERWISE SPECIFIED

.X [X]	± –	X/X	± –
.XX [X.X]	± –	X°	± –
.XXX [X.XX]	± –	FINISH	√

DIMENSIONS IN INCHES [mm] CONCENTRICITY .005 TIR
DEBURR AND BREAK ALL SHARP EDGES

FABRICATION NOTES

		DRFTR	DATE
		M.D. REGILLO	11/21/95
		CHKR	
		MECH ENGR	
		ELEC ENGR	
160-006260	9000	MFG ENGR	
NEXT ASSY	SYSTEM		
APPLICATION		APPROVED	

MATERIAL –

FINISH –

163-006260	A
PART NUMBER	REV
PART REV LEVEL	

Micrion

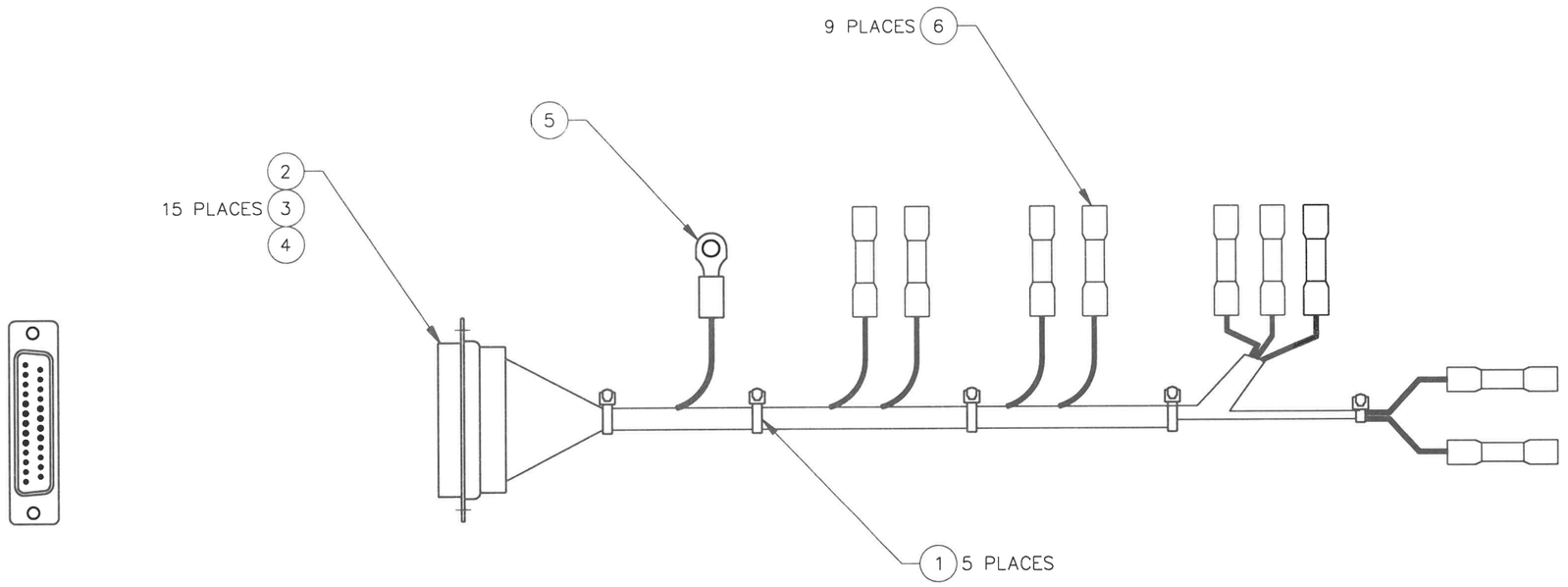
TITLE
SEMCOL-SEM KNOB-HARNESS

SIZE	DRAWING NO.
B	163-006260

SCALE	NONE	WT	SHEET 1 OF 1

FABRICATION NOTES

REVISIONS				
ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
4935	RELEASED			



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THIRD ANGLE PROJECTION

DO NOT SCALE THIS DRAWING

UNLESS OTHERWISE SPECIFIED

.x [x] ± .1 [3] X/X ± 1/16

.xx [x.x] ± .Ø1 [Ø.3] X° ± 3Ø'

.xxx [x.xx] ± .ØØ5 [Ø.13] FINISH 63 [1.6]

DIMENSIONS IN INCHES [mm] CONCENTRICITY .ØØ5 TIR

DEBURR AND BREAK ALL SHARP EDGES

		DRFTR M.D. REGILLO	DATE 11/21/95
		CHKR	
		MECH ENGR	
		ELEC ENGR	
16Ø-ØØ626Ø	9ØØØ	MFG ENGR	
NEXT ASSY	SYSTEM		
APPLICATION		APPROVED	
MATERIAL SEE BOM			
FINISH –			

165-ØØ626Ø	A
PART NUMBER	REV
PART REV LEVEL	

Micrion

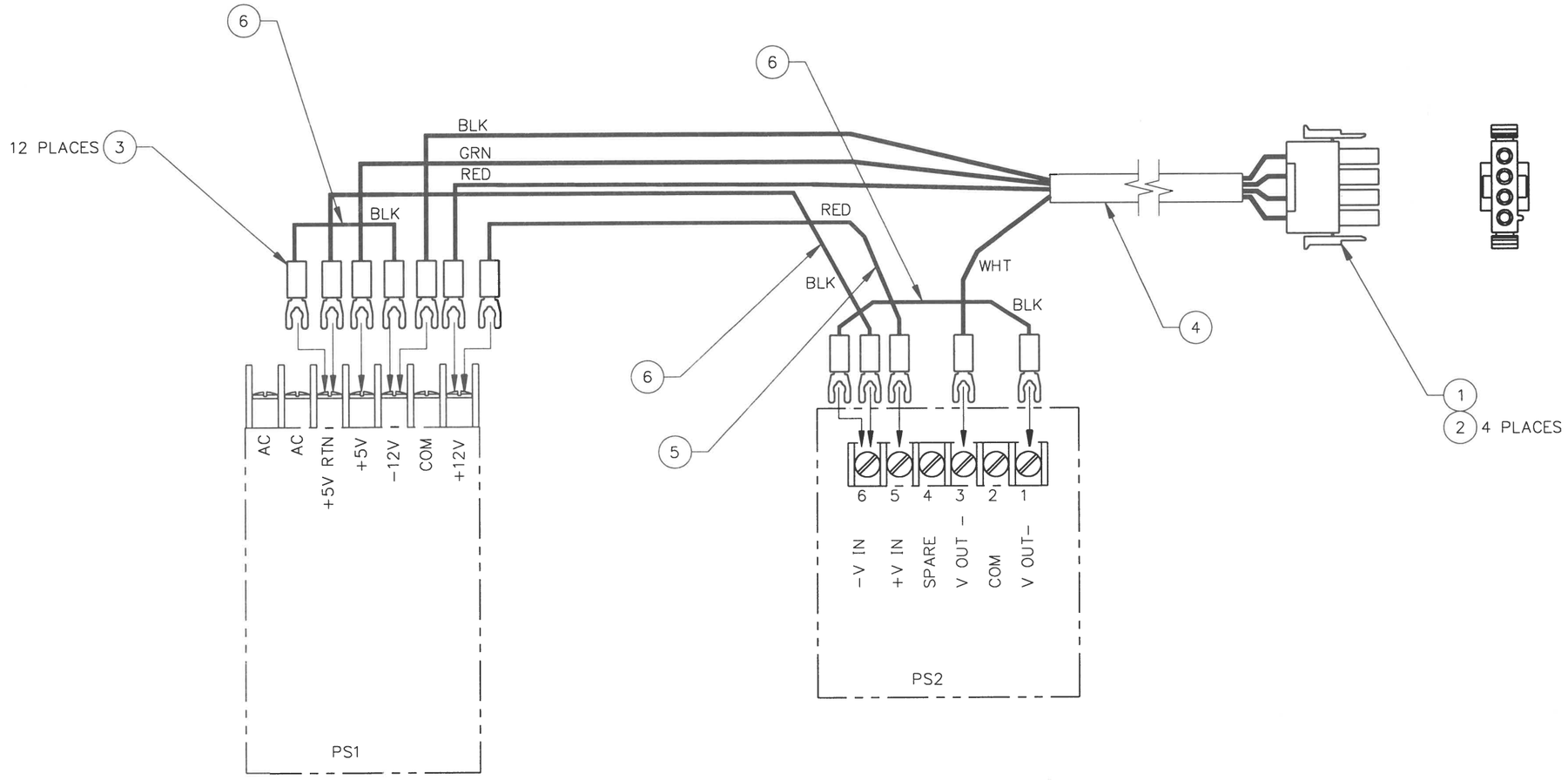
TITLE
SEM COL-SEM KNOB-HARNESS ASSY

SIZE	DRAWING NO.
C	165-ØØ626Ø

SCALE	NONE	WT	SHEET 1 OF 1

FABRICATION NOTES

REVISIONS				
ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
4899	RELEASED			



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THIRD ANGLE PROJECTION

DO NOT SCALE THIS DRAWING

UNLESS OTHERWISE SPECIFIED

.X [X] ± .1 [3] X/X ± 1/16

.XX [X.X] ± .Ø1 [Ø.3] X° ± 3Ø'

.XXX [X.XX] ± .ØØ5 [Ø.13] FINISH 63 [1.6]

DIMENSIONS IN INCHES [mm] CONCENTRICITY .ØØ5 TIR

DEBURR AND BREAK ALL SHARP EDGES

1ØØ-ØØ624Ø	9ØØØ
NEXT ASSY	SYSTEM
APPLICATION	
MATERIAL: SEE BOM	
FINISH	

DRFTR: M.D. REGILLO	DATE: 11/7/95
CHKR	
MECH ENGR	
ELEC ENGR	
MFG ENGR	
APPROVED	

165-ØØ624Ø	A
PART NUMBER	REV
PART REV LEVEL	

Micrion

TITLE
SEM COL-ION PUMP PS PANEL-HARNESS ASSEMBLY

SIZE	DRAWING NO.
C	165-ØØ624Ø

SCALE	FULL	WT	SHEET 1 OF 1

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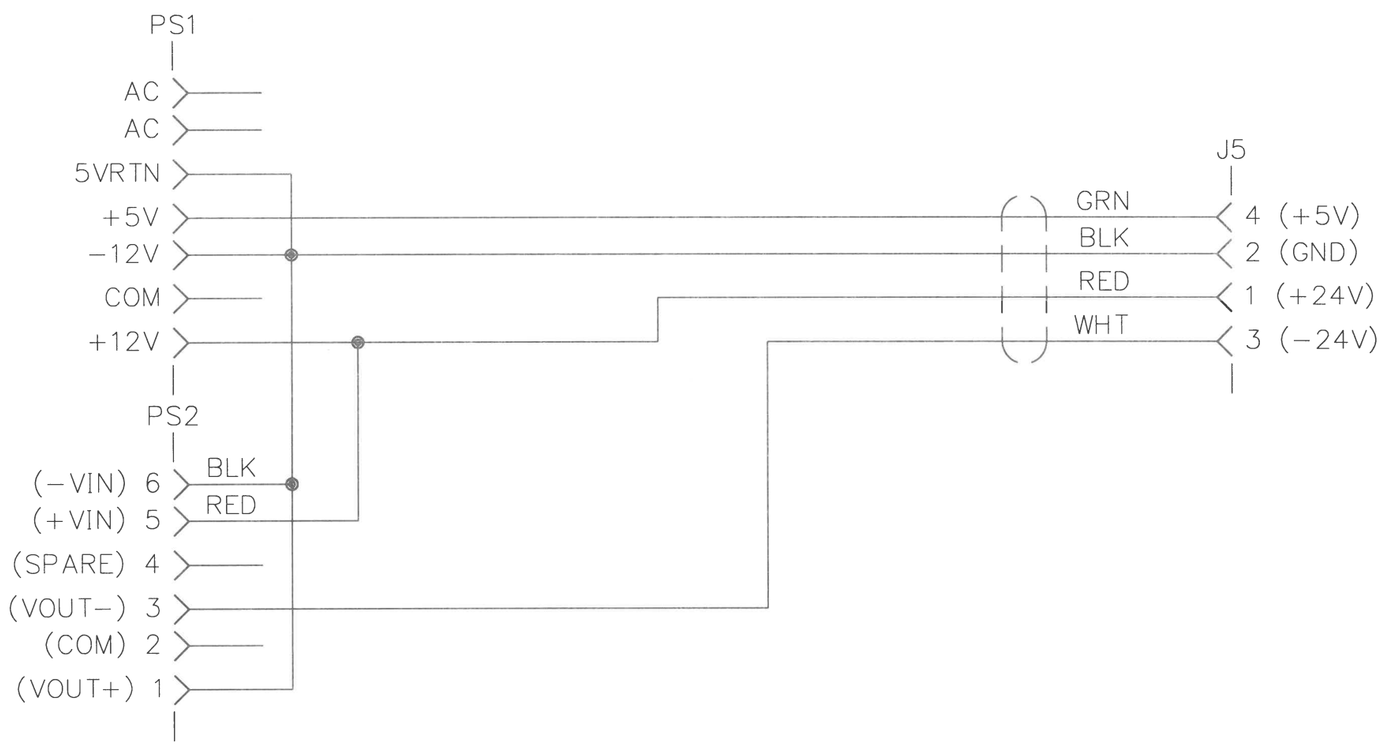
THIRD ANGLE PROJECTION

DO NOT SCALE THIS DRAWING

REVISIONS

ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
4899	RELEASED			



UNLESS OTHERWISE SPECIFIED

.X [X]	± –	X/X	± –
.XX [X.X]	± –	X°	± –
.XXX [X.XX]	± –	FINISH	√

DIMENSIONS IN INCHES [mm] CONCENTRICITY .ØØ5 TIR
DEBURR AND BREAK ALL SHARP EDGES

FABRICATION NOTES

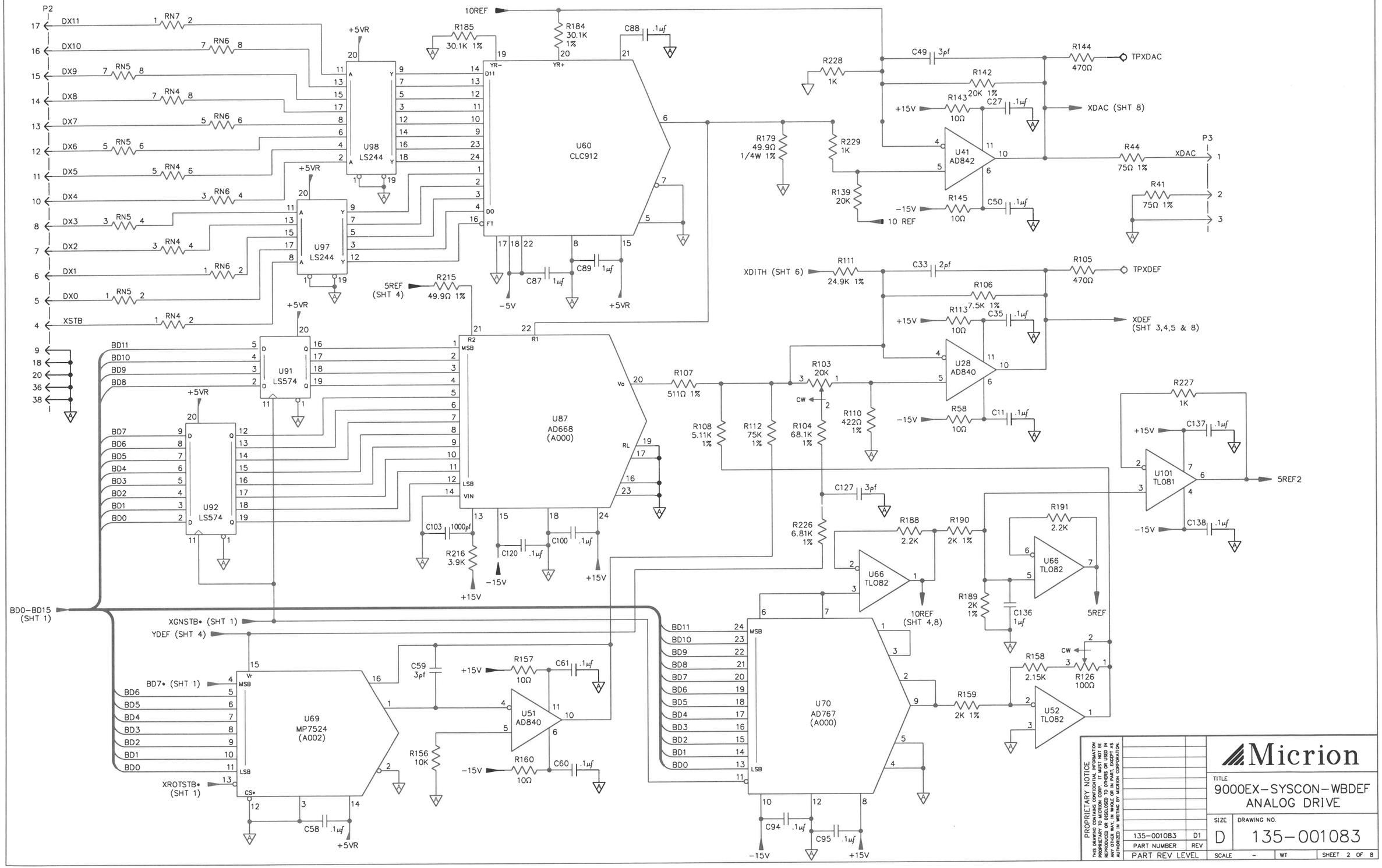
		DRFTR	DATE
		M.D. REGILLO	11/7/95
		CHKR	
		MECH ENGR	
		ELEC ENGR	
160−ØØ624Ø	9ØØØ		
NEXT ASSY	SYSTEM	MFG ENGR	
APPLICATION		APPROVED	
MATERIAL	–		
FINISH	–		

163−ØØ624Ø	A
PART NUMBER	REV
PART REV LEVEL	

Micrion

TITLE
SEM COL−ION PUMP PS PANEL−HARNESS SCHEMATIC

SIZE	DRAWING NO.		
B	163−ØØ624Ø		
SCALE NONE	WT	SHEET 1 OF 1	



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Micrion

TITLE
9000EX−SYSCON−WBDEF
ANALOG DRIVE

SIZE	DRAWING NO.
D	135−001083

135−001083	D1
PART NUMBER	REV
PART REV LEVEL	

SCALE − | WT | SHEET 2 OF 8

FABRICATION NOTES
1- UNLESS OTHERWISE SPECIFIED, ALL RESISTORS TO BE 1/4 WATT, ±5% TOLERANCE.
2- PARENTHETICAL VALUES INSIDE DEVICES ARE MEMORY MAP ADDRESSES.

REVISIONS				
ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
4479	RELEASED	EPG	6/16/95	B.WELLS
(4912)	PER MARKED PRINT	MDR		

P1
A15* A14* A13* A12*
U79 LS85
HI
U80 PAL16L8
A11* A10* A9* A8* A7* A6* A5* A4*
RDSEL* (SHT 8)
BDSEL* (SHT 8)
BHEN* 10WC* 10RC*
RN3 3.3K +5V
U81 8T98
A3* A2* A1*
A5 A4 (SHT 8)
U25
INIT*
R101 100Ω
C29 .01μf
RST* (SHT 8)
R47 470Ω TPBD
U81
XACK*
U46
ACK* (SHT 8)
WRSTB* (SHT 8)
U47 LS138
YSINSTB* (SHT 5)
YCOSSTB* (SHT 5)
XSINSTB* (SHT 3)
XCOSSTB* (SHT 3)
YROTSTB* (SHT 4)
YGNSTB* (SHT 4)
XROTSTB* (SHT 2)
XGNSTB* (SHT 2)
U45
U26 LS139
COFFSTB* (SHT 7)
SOFFSTB* (SHT 6)
YSHFTSTB* (SHT 7)
XSHFTSTB* (SHT 7)
U84 LS138
YDITHSTB* (SHT 6)
XDITHSTB* (SHT 6)
STIGCSTB* (SHT 6)
STIGSSTB* (SHT 6)
A3 (SHT 8)
A2 (SHT 8)
A1 (SHT 8)
U26 LS139
BD11 BD7
U90
BD11* (SHT 3,5-7)
BD7* (SHT 2 & 4)
BD0 – BD15 (SHT 2 – 7)
D0 – D15 (SHT 8)
U22 LS273
STIGBWBL (SHT 6)
STIGAWBL (SHT 6)
XDITHON (SHT 6)
YDITHON (SHT 6)
U1 LS273 (A02A)
SCNMD (SHT 8)
RST*
U44 LS273 (A028)
AMRAY BL (SHT 7)
UPDEF (SHT 3 & 5)
UPROT (SHT 3 & 5)
LODEF (SHT 3 & 5)
LOROT (SHT 3 & 5)
U2 LS240
RANG1 RANG0 COL4 COL8 COL2 COL1 COL0
RN2 1K
RN1 1K
P4
P3
+15V
R230 100Ω
SCNSEL
SCNSEL RTN
R231 1K
Q6 2N3904
JP1
P1
+15V
C119 6.8μf
TPGND
C117 6.8μf
-15V
HI
+5V
C113 6.8μf
U82 ALS640
U62 ALS573
U63 LS244
U83 ALS640
U65 ALS573
U64 LS244
U21 LS244
+5VR
+5V

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THIRD ANGLE PROJECTION

DO NOT SCALE THIS DRAWING
UNLESS OTHERWISE SPECIFIED
.x [x] ± – x/x ± –
.xx [x.x] ± – x° ± –
.xxx [x.xx] ± – FINISH √
DIMENSIONS IN INCHES [mm] CONCENTRICITY .005 TIR
DEBURR AND BREAK ALL SHARP EDGES

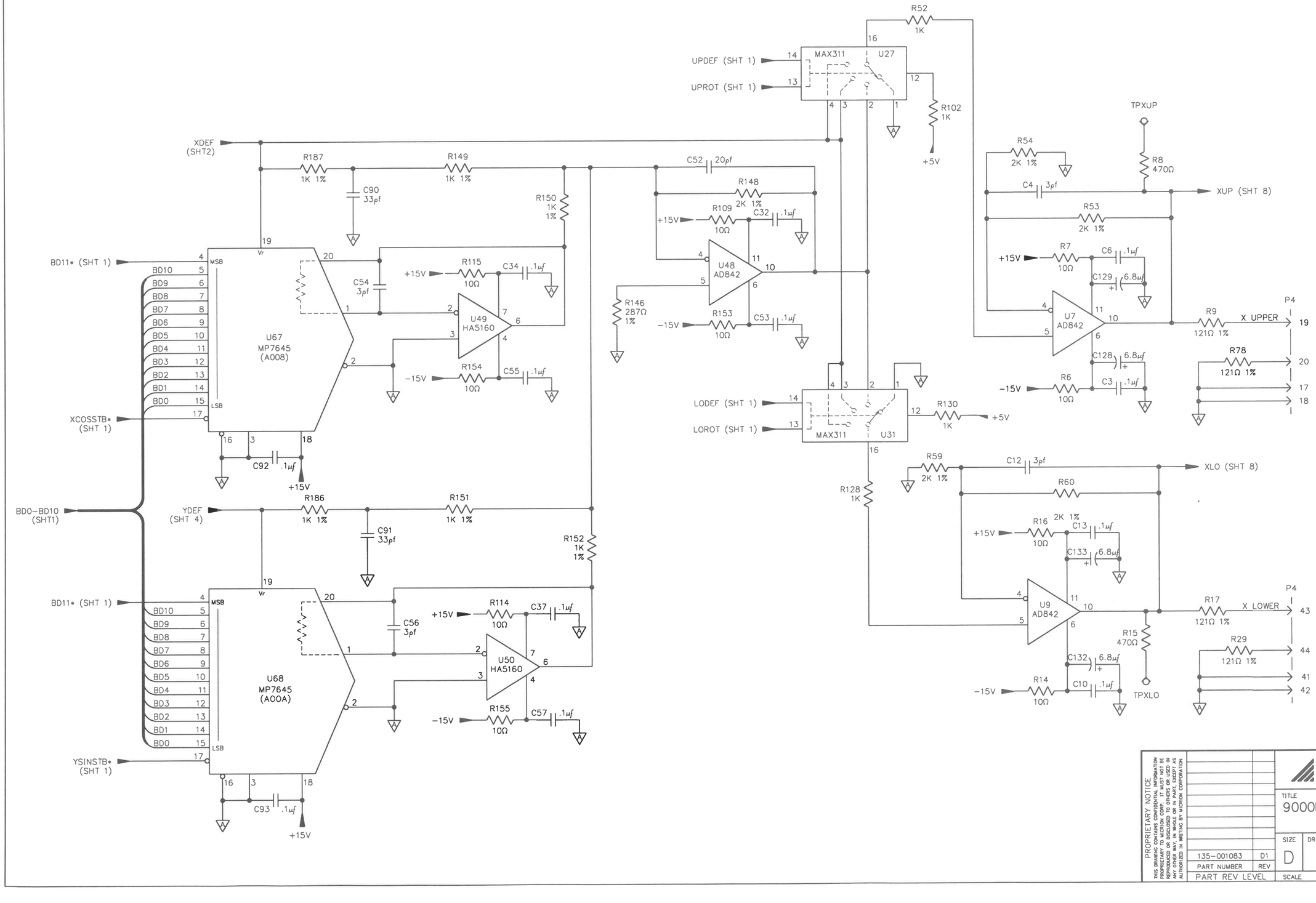
		DRFTR	DATE
		R.CONNERS	1/22/92
		CHKR	
		MECH ENGR	
		ELEC ENGR	
150-001082	9000	MFG ENGR	
NEXT ASSY	SYSTEM		
APPLICATION		APPROVED	
MATERIAL –		135-001083	D1
FINISH –		PART NUMBER	REV
		PART REV LEVEL	

Micrion

TITLE
9000EX-SYSCON-WBDEF
ANALOG DRIVE

SIZE D | DRAWING NO. 135-001083

SCALE – | WT | SHEET 1 OF 8



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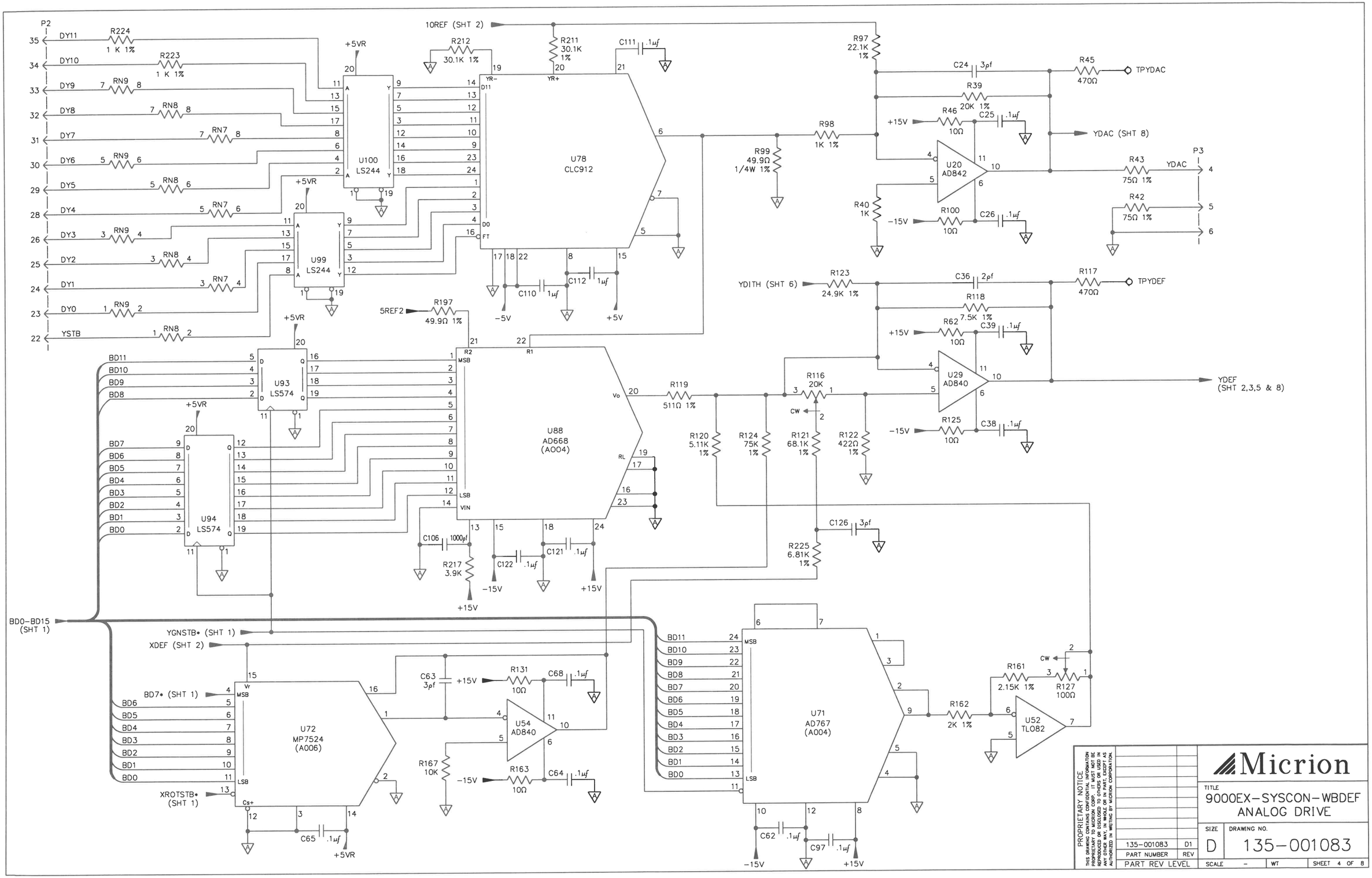
Micron

TITLE
9000EX-SYSCON-WBDEF
ANALOG DRIVE

PART NUMBER	REV
135-001083	D1
PART REV LEVEL	

SIZE D | DRAWING NO. 135-001083

SCALE – | WT | SHEET 3 OF 8



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Micron

TITLE
9000EX−SYSCON−WBDEF
ANALOG DRIVE

PART NUMBER	REV
135−001083	D1
PART REV LEVEL	

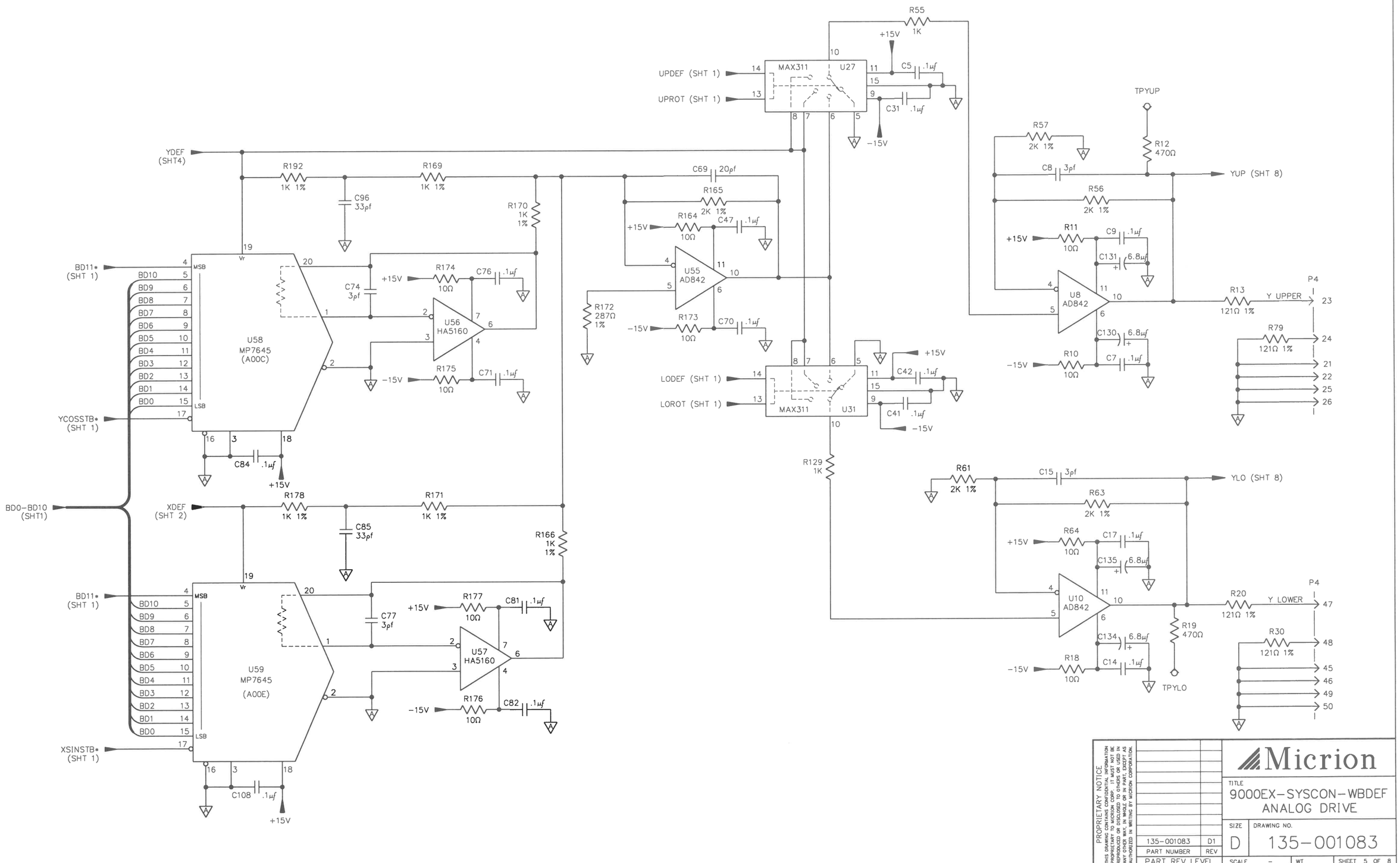
SIZE D

DRAWING NO. 135−001083

SCALE −

WT

SHEET 4 OF 8



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Micrion

TITLE
9000EX-SYSCON-WBDEF
ANALOG DRIVE

SIZE	DRAWING NO.
D	135-001083

135-001083	D1
PART NUMBER	REV
PART REV LEVEL	

SCALE – | WT | SHEET 5 OF 8

STIGAWBL (SHT 1)
STIGBWBL (SHT 1)
U45
U90
+5VR
U96
R219 2.2K
C123 1µf
U95 TL082
R220 270K
U95 TL082
DG201
U96
R218 1K
+15V
−15V
+15V
R199 4.75K 1%
R201 1.5K 1%
R202 2.2K
+5V
−5V
R205 470Ω
R206 470Ω
U89 AM686
R204 470Ω
Q2 2N3906
R200 3.32K 1%
C124 .1µf
+5VR
−15V
Q4 SD211
−5V
C109 47pf
R203 7.5K
−15V
U90
XDITHON (SHT 1)
BD0–BD7 (SHT1)
BD0–BD10 (SHT 1)
BD11* (SHT 1)
STIGSSTB* (SHT 1)
R136 49.9Ω 1%
R135 49.9Ω 1%
U35 AD767 (A020)
C73 .1µf
C72 .1µf
−15V
+15V
C48 33pf
R134 10K 1%
BD7
BD6
BD5
BD4
BD3
BD2
BD1
BD0
XDITHSTB* (SHT 1)
U75 MP7524 (A024)
C98 2pf
+15V
R194 10Ω
C66 .1µf
U73 AD840
R193 10Ω
C99 .1µf
−15V
C105 .1µf
+5VR
XDITH (SHT 2)
R207 4.75K 1%
R210 1.5K 1%
R209 2.2K
+5V
+5VR
R182 470Ω
R183 470Ω
U77 AM686
R181 470Ω
Q1 2N3906
R208 3.32K 1%
C125 .1µf
−5V
−15V
Q3 SD211
−5V
C86 200pf
R180 7.5K
−15V
U90
YDITHON (SHT 1)
YDITHSTB* (SHT 1)
U76 MP7524 (A026)
C101 2pf
+15V
R196 10Ω
C104 .1µf
U74 AD840
R195 10Ω
C102 .1µf
−15V
C107 .1µf
+5VR
YDITH (SHT 4)
BD11* (SHT 1)
A1 (SHT 1)
SOFFSTB* (SHT 1)
U37 DAC8222
(A018)
(A01A)
C43 10pf
C45 10pf
R74 15K 1%
R132 15K 1%
C79 .1µf
+5VR
U34 TL082
U32 TLO82
U32 TLO82
R66 15K 1%
R21 15K 1%
STIG1 (SHT 8)
R67 30.1K 1%
R65 6.2K
U12 TL082
R233 100Ω
P12 −1
P4
STIG1
R22 15K 1%
STIG5 (SHT 8)
R70 30.1K 1%
R69 30.1K 1%
R68 15K 1%
U12 TL082
R234 100Ω
P12 −7
STIG5
C139 47pf
R73 15K 1%
R23 15K 1%
STIG3 (SHT 8)
R72 30.1K 1%
R71 6.2K
U13 TL082
R235 100Ω
P13 −1
STIG3
R24 15K 1%
STIG7 (SHT 8)
R77 30.1K 1%
R76 30.1K 1%
R75 15K 1%
U13 TL082
R236 100Ω
P13 −7
STIG7
C140 47pf
R198 10K 1%
C75 33pf
STIGC (SHT 7)
STIGCSTB* (SHT 1)
U36 AD767 (A022)
C78 .1µf
C80 .1µf
−15V
+15V

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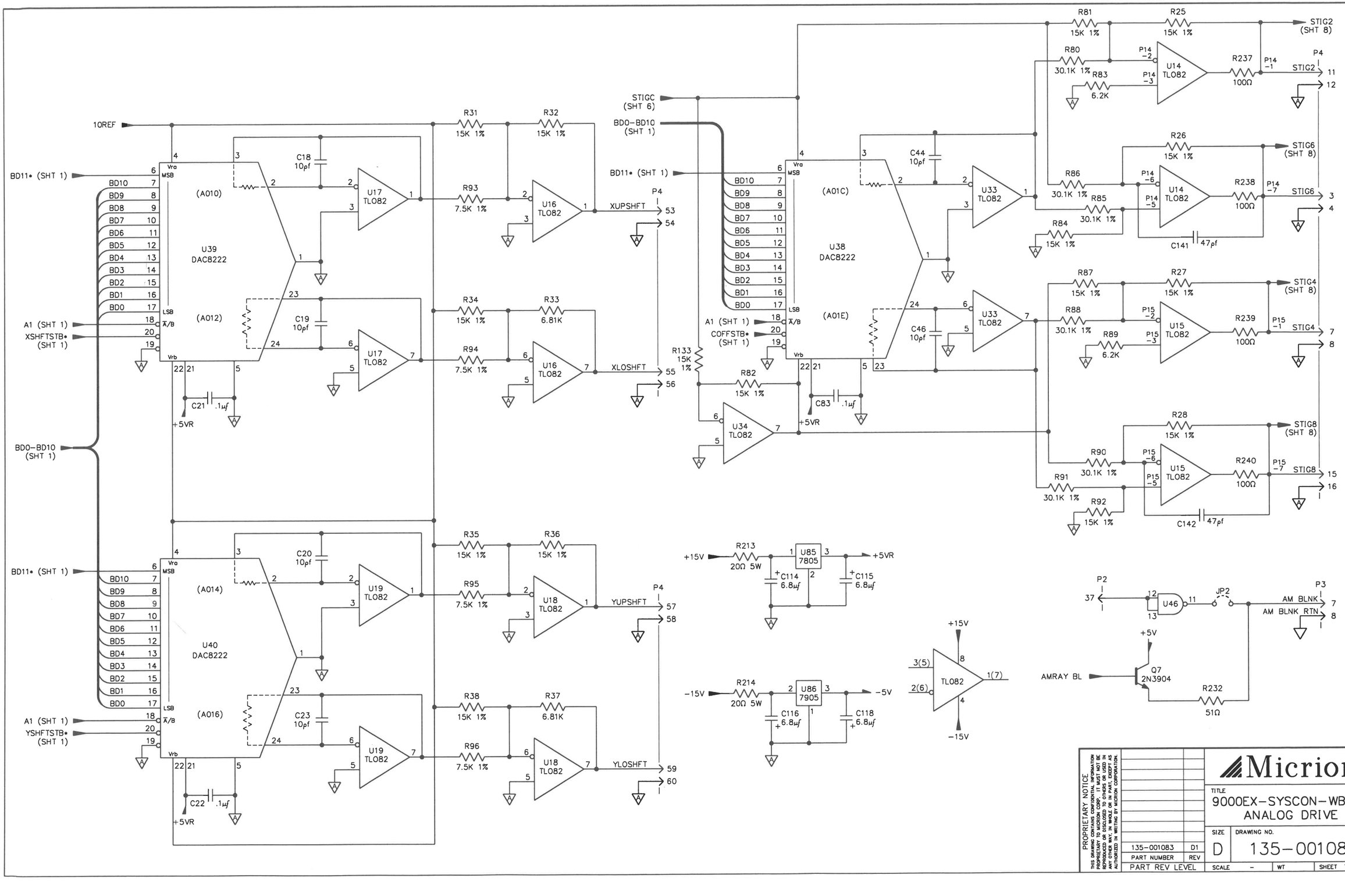
Micron

TITLE
9000EX–SYSCON–WBDEF
ANALOG DRIVE

PART NUMBER	REV
135–001083	D1
PART REV LEVEL	

SIZE D | DRAWING NO. 135–001083

SCALE – | WT | SHEET 6 OF 8



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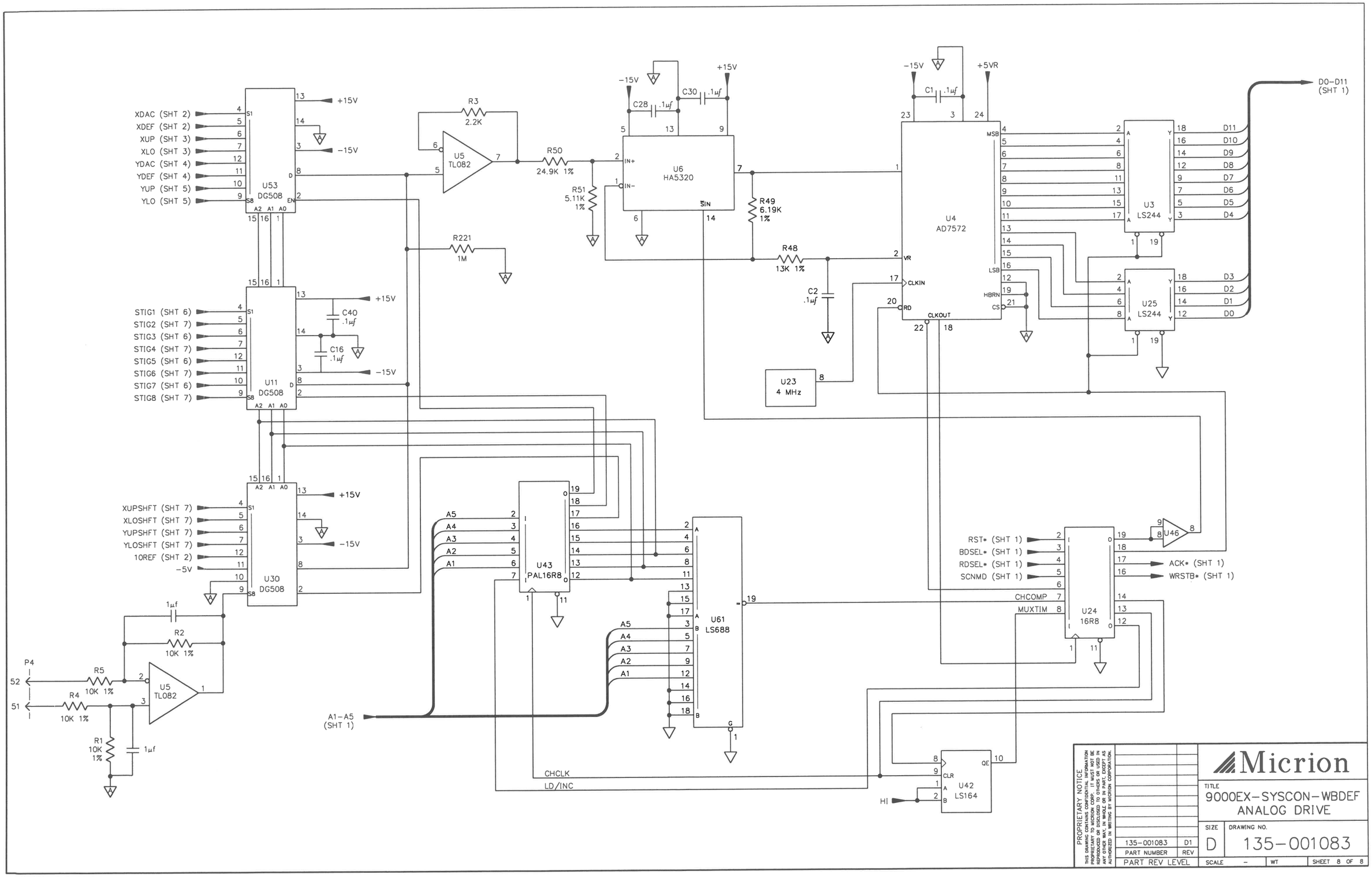
Micrion

TITLE
9000EX–SYSCON–WBDEF
ANALOG DRIVE

135–001083	D1
PART NUMBER	REV
PART REV LEVEL	

SIZE D | DRAWING NO. 135–001083

SCALE – | WT | SHEET 7 OF 8



PROPRIETARY NOTICE
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Micrion

TITLE
9000EX–SYSCON–WBDEF
ANALOG DRIVE

SIZE	DRAWING NO.
D	135–001083

135–001083	D1
PART NUMBER	REV
PART REV LEVEL	

SCALE – WT SHEET 8 OF 8

CLASS CODE GROUP: 1 UNCLASSIFIED
CLASS CODE: 100 FIB ASSEMBLIES

150-001081 OPCODE: 0 IM REV: D* 8000-SYSCON-WB DEF ANALOG DRV
MODEL:
ECO NO: 05108
DATE OF LAST ECO: 01/25/96

OP: ORDER POLICY CODE
REQ: N=PART OPTIONAL
Y=PART REQUIRED
PF: N=PART DOES NOT PRINT ON SALES ORDER
Y=PART PRINTS ON SALES ORDER W/O PRICE
P=PART PRINTS ON SALES ORDER WITH PRICE

PART NUMBER	DESCRIPTION	OP	RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR	UM	SC	REQ QF	DEFAULT QUANTITY	DAYS OFF SET	SEQ	REFERENCE DESIGNATOR	EFFECTIV DATE	OBSOLETE DATE
*** D2 ***	ASSEMBLY REVISION LEVEL	0		0	.000	1.000	EA	F	YN	.000	0	0		08/18/95	99/99/99
135-001081	8000-WB DEF ANALOG DRV-SCHEM	0	D*	0	.000	1.000	EA	ZB	YN	.000	0	0		00/00/00	99/99/99
140-001080	9000-ANALOG DRIVE-PCB	0	D	0	1.000	1.000	EA	P	YN	1.000	0	0		03/15/92	99/99/99
155-001080	SYSCON-ANALOG DRIVE-ASSY	0	D*	0	.000	1.000	EA	ZB	YN	.000	0	0		03/15/92	99/99/99
157-001082	SYSCON-WB DEF ANALOG-TEST PROC	0	1	0	.000	1.000	EA	F	YN	.000	0	0		06/09/94	99/99/99
400-000019	BIVAR CP-29 CARD EJECTOR	0		0	2.000	1.000	EA	F	YN	2.000	0	0		01/27/95	99/99/99
500-000042	3M 3518 POLARIZING KEY	0		0	2.000	1.000	EA	F	YN	2.000	0	0	P4	09/10/95	99/99/99
510-000020	AUGAT 208-AG19DC DIP .3	0		0	18.000	1.000	EA	F	YN	18.000	0	0	U5,12-19 U32-34,52 U66,77,89 U95,101	04/16/93	99/99/99
510-000021	AUGAT 214-AG19DC 14-P DIP .3	0		0	1.000	1.000	EA	F	YN	1.000	0	0	U6	03/15/92	99/99/99
510-000022	AUGAT 216-AG19DC 16-P DIP .3	0		0	4.000	1.000	EA	F	YN	4.000	0	0	U11,30,53 U96	03/15/92	99/99/99
510-000089	RN ICB-243-S8A-T 24-P DIP .3	0		0	9.000	1.000	EA	F	YN	9.000	0	0	U4,35-40 U70,71	03/15/92	99/99/99
510-000216	AD INT SMC314-01TG-.1 14-P DIP	0		0	4.000	1.000	EA	P	YN	4.000	0	0	U42,45,46 U90	03/15/92	99/99/99
510-000217	AD INT SMC316-01TG-.1 16-P DIP	0		0	5.000	1.000	EA	P	YN	5.000	0	0	U26,47,79 U81,84	03/15/92	99/99/99
510-000218	AD INT SMC320-01TG-.1 20-P DIP	0		0	25.000	1.000	EA	P	YN	25.000	0	0	U1-3,21,22 U24,25,43 U44,61-65 U80,82,83 U91-94 U97-100	03/15/92	99/99/99
510-000245	3M 3372-1302 60-P RTANG HDR	0		0	1.000	1.000	EA	P	YN	1.000	0	0	P4	03/15/92	99/99/99
510-000388	AI KS316-85TG 16-P PEEL SKT	0		0	6.000	1.000	EA	P	YN	6.000	0	0	U27,31,69 U72,75,76	03/15/92	99/99/99
510-000407	AI KS320-85TG PEEL-AWAY SOCKET	0		0	4.000	1.000	EA	P	YN	4.000	0	0	U58,59,67 U68	03/15/92	99/99/99
510-000409	AI KS324-85TG 24P PEELAWAY SKT	0		0	2.000	1.000	EA	P	YN	2.000	0	0	U87,88	03/15/92	99/99/99
510-000434	AMP 1-640457-0 10P MTA POST HD	0		0	1.000	1.000	EA	P	YN	1.000	0	0	P3	03/15/92	99/99/99
510-000457	AI KS308-85TG 8-P PEEL AWAY	0		0	4.000	1.000	EA	P	YN	4.000	0	0	U49,50,56 U57	03/15/92	99/99/99
510-000458	AI KS314-85TG 14-P PEEL AWAY	0		0	14.000	1.000	EA	P	YN	14.000	0	0	U7-10,20 U28,29,41 U48,51,54 U55,73,74	03/15/92	99/99/99
510-000459	AI KS624-85TG 24P(.6) PEELAWAY	0		0	2.000	1.000	EA	P	YN	2.000	0	0	U60,78	03/15/92	99/99/99
520-000032	KEYSTONE 1562-2 TURRET TMNL	0		0	1.000	1.000	EA	F	YN	1.000	0	0	TPGND	03/15/92	99/99/99

BILL OF MATERIAL

AS OF 06/07/96

CLASS CODE GROUP: 1 UNCLASSIFIED
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150-001081 OPCODE: 0 IM REV: D* 8000-SYSCON-WB DEF ANALOG DRV
MODEL:
ECO NO: 05108
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610-000297	HARRIS HA-5320-5 SAMPL-HLD AMP	1		0	1.000	1.000	EA	P	YN	1.000	0	0	U6	03/15/92	99/99/99
610-000298	AD7572 AJN03 12-BIT ADC	1		0	1.000	1.000	EA	P	YN	1.000	0	0	U4	03/15/92	99/99/99
610-000299	DAC8222HP DUAL 12-BIT DAC	0		0	4.000	1.000	EA	P	YN	4.000	0	0	U37-40	03/15/92	99/99/99
610-000302	XO-43B-4.0 4MHz CLOCK OSC	0		0	1.000	1.000	EA	P	YN	1.000	0	0	U23	03/15/92	99/99/99
610-000303	74ALS573 OCTAL D-TYPE LATCH	0		0	2.000	1.000	EA	P	YN	2.000	0	0	U62,65	03/15/92	99/99/99
610-000306	MAX311CPE DUAL VIDEO 4 TO 1MUX	0		0	2.000	1.000	EA	P	YN	2.000	0	0	U27,31	03/15/92	99/99/99
615-001570	B108U80-16L8-ADDRESS DECODE	0	A	0	1.000	1.000	EA	X	YN	1.000	0	0	U80	03/15/92	99/99/99
615-001580	B108U24-16R8-AD CONTROL	0	B	0	1.000	1.000	EA	X	YN	1.000	0	0	U24	03/15/92	99/99/99
615-001590	B108U43-16R8-AD ADDRESS	0	A	0	1.000	1.000	EA	X	YN	1.000	0	0	U43	03/15/92	99/99/99
630-000001	2N3904 NPN 40V 10MA	0		0	1.000	1.000	EA	F	YN	1.000	0	0	Q5	03/15/92	99/99/99
630-000002	2N3906 PNP 40V 10MA	0		0	2.000	1.000	EA	F	YN	2.000	0	0	Q1,2	03/15/92	99/99/99
630-000024	SILICONIX SD211DE NDMOS FET SW	0		0	2.000	1.000	EA	P	YN	2.000	0	0	Q3,4	03/15/92	99/99/99
660-000001	6.8uf 25V 199D685X9025CA1	1		0	15.000	1.000	EA	F	YN	15.000	0	0	C113-119 C128-135	04/16/93	99/99/99
660-000009	0.01uf 100V CK05BX103K	0		0	1.000	1.000	EA	F	YN	1.000	0	0	C29	03/15/92	99/99/99
660-000010	1000pf 100VDC 1C20C0G102J050B	0		0	2.000	1.000	EA	F	YN	2.000	0	0	C103,106	04/16/93	99/99/99
660-000013	0.1uf 50WVDC CKR05BX104KR	1		0	75.000	1.000	EA	F	YN	75.000	0	0	C1-3,5-7 C9-11,13, C14,16,17 C21,22 C25-28 C30-32,34 C35,37-42 C47,50,53 C55,57,58 C60-62 C64-66,68 C70-73,76 C78-84,88 C92-95 C97,99,100 C102,104 C105,107 C108,111 C120-122 C124,125 C137,138	03/15/92	99/99/99
660-000014	1.0uf 50WVDC 2C20Z5U105M050B	0		11	8.000	1.000	EA	F	YN	8.000	0	0	C87,89,110 C112,123 C136 R1,2	09/10/95	99/99/99

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AS OF 06/07/96

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ECO NO: 05108
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670-000032	1K 1/4W 5% RCR07G102JS	0		0	10.000	1.000	EA	F	YN	10.000	0	0	R227	04/16/93	99/99/99
670-000036	2.2K 1/4W 5% RCR07G222JS	0		0	6.000	1.000	EA	F	YN	6.000	0	0	R3,188,191 R202,209 R219	03/15/92	99/99/99
670-000039	3.9K 1/4W 5% RCR07G392JS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R216,217	03/15/92	99/99/99
670-000045	10K 1/4W 5% RCR07G103JS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R156,167	03/15/92	99/99/99
670-000063	270K 1/4W 5% RCR07G274JS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R220	03/15/92	99/99/99
670-000071	1M 1/4W 5% RCR07G105JS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R221	03/15/92	99/99/99
670-000091	7.5K 1/4W 5% RCR07G752JS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R180,203	03/15/92	99/99/99
670-000140	6.2K 1/4W 5% RCR07G622JS	0		0	4.000	1.000	EA	F	YN	4.000	0	0	R65,71,83 R89	03/15/92	99/99/99
670-000141	OHMITE 95J20R 20OHM 5W	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R213,214	03/15/92	99/99/99
675-000001	49.9 OHM 1/8W 1% RNC55H49R9FS	0		0	6.000	1.000	EA	F	YN	6.000	0	0	R135-138 R197,215	03/15/92	99/99/99
675-000003	75.0 OHM 1/8W 1% RNC55H75ROFS	0		0	4.000	1.000	EA	F	YN	4.000	0	0	R41-44	03/15/92	99/99/99
675-000007	121 OHM 1/8W 1% RNC55H1210FS	0		0	8.000	1.000	EA	F	YN	8.000	0	0	R9,13,17 R20,29,30 R78,79	03/15/92	99/99/99
675-000018	511 OHM 1/8W 1% RNC55H5110FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R107,119	03/15/92	99/99/99
675-000024	1.00K 1/8W 1% RNC55H1001FS	0		0	14.000	1.000	EA	F	YN	14.000	0	0	R98,141 R149-152 R166 R169-171 R178,186 R187,192 R223,224	03/15/92	99/99/99
675-000026	1.50K 1/8W 1% RNC55H1501FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R201,210	03/15/92	99/99/99
675-000029	2.00K 1/8W 1% RNC55H2001FS	0		0	14.000	1.000	EA	F	YN	14.000	0	0	R53,54,56 R57,59-61 R63,148 R159,162 R165,189 R190	09/10/95	99/99/99
675-000033	3.32K 1/8W 1% RNC55H3321FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R200,208	03/15/92	99/99/99
675-000035	4.75K 1/8W 1% RNC55H4751FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R199,207	03/15/92	99/99/99
675-000036	5.11K 1/8W 1% RNC55H5111FS	0		0	3.000	1.000	EA	F	YN	3.000	0	0	R51,108 R120	03/15/92	99/99/99
675-000038	6.81K 1/8W 1% RNC55H6811FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R225,226	10/01/92	99/99/99
675-000039	7.50K 1/8W 1% RNC55H7501FS	0		0	6.000	1.000	EA	F	YN	6.000	0	0	R93-96,106 R118	03/15/92	99/99/99
675-000042	10.0K 1/8W 1% RNC55H1002FS	0		0	6.000	1.000	EA	F	YN	6.000	0	0	R1,2,4,5	03/15/92	99/99/99

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150-001082 OPCODE: 0 IM REV: D* 9000-SYSCON-WB DEF ANALOG DRV
MODEL:
ECO NO: 05108
DATE OF LAST ECO: 01/25/96

PART NUMBER	DESCRIPTION	OP	RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR	UM	SC	REP QF	DEFAULT QUANTITY	DAYS OFF SET	SEQ	REFERENCE DESIGNATOR	EFFECTIV DATE	OBSOLETE DATE
*** D2 ***	ASSEMBLY REVISION LEVEL	0		0	.000	1.000	EA	F	YN	.000	0	0		08/18/95	99/99/99
135-001082	9000-WB DEF ANALOG DRV-SCHEM	0	D*	0	.000	1.000	EA	ZB	YN	.000	0	0		00/00/00	99/99/99
140-001080	9000-ANALOG DRIVE-PCB	0	D	0	1.000	1.000	EA	P	YN	1.000	0	0		03/15/92	99/99/99
155-001080	SYSCON-ANALOG DRIVE-ASSY	0	D*	0	.000	1.000	EA	ZB	YN	.000	0	0		03/15/92	99/99/99
157-001082	SYSCON-WB DEF ANALOG-TEST PROC	0	1	0	.000	1.000	EA	F	YN	.000	0	0		06/09/94	99/99/99
400-000019	BIVAR CP-29 CARD EJECTOR	0		0	2.000	1.000	EA	F	YN	2.000	0	0		01/27/95	99/99/99
500-000042	3M 3518 POLARIZING KEY	0		0	2.000	1.000	EA	F	YN	2.000	0	0	P4	09/10/95	99/99/99
510-000020	AUGAT 208-AG19DC DIP .3	0		0	18.000	1.000	EA	F	YN	18.000	0	0	U5,12-19 U32-34,52 U66,77,89 U95,101	04/16/93	99/99/99
510-000021	AUGAT 214-AG19DC 14-P DIP .3	0		0	1.000	1.000	EA	F	YN	1.000	0	0	U6	03/15/92	99/99/99
510-000022	AUGAT 216-AG19DC 16-P DIP .3	0		0	4.000	1.000	EA	F	YN	4.000	0	0	U11,30,53 U96	03/15/92	99/99/99
510-000089	RN ICB-243-S8A-T 24-P DIP .3	0		0	9.000	1.000	EA	F	YN	9.000	0	0	U4,35-40 U70,71	03/15/92	99/99/99
510-000216	AD INT SMC314-01TG-.1 14-P DIP	0		0	4.000	1.000	EA	P	YN	4.000	0	0	U42,45,46 U90	03/15/92	99/99/99
510-000217	AD INT SMC316-01TG-.1 16-P DIP	0		0	5.000	1.000	EA	P	YN	5.000	0	0	U26,47,79 U81,84	03/15/92	99/99/99
510-000218	AD INT SMC320-01TG-.1 20-P DIP	0		0	25.000	1.000	EA	P	YN	25.000	0	0	U1-3,21,22 U24,25,43 U44,61-65 U80,82,83 U91-94 U97-100	03/15/92	99/99/99
510-000245	3M 3372-1302 60-P RTANG HDR	0		0	1.000	1.000	EA	P	YN	1.000	0	0	P4	03/15/92	99/99/99
510-000388	AI KS316-85TG 16-P PEEL SKT	0		0	6.000	1.000	EA	P	YN	6.000	0	0	U27,31,69 U72,75,76	03/15/92	99/99/99
510-000407	AI KS320-85TG PEEL-AWAY SOCKET	0		0	4.000	1.000	EA	P	YN	4.000	0	0	U58,59,67 U68	03/15/92	99/99/99
510-000409	AI KS324-85TG 24P PEELAWAY SKT	0		0	2.000	1.000	EA	P	YN	2.000	0	0	U87,88	03/15/92	99/99/99
510-000434	AMP 1-640457-0 10P MTA POST HD	0		0	1.000	1.000	EA	P	YN	1.000	0	0	P3	03/15/92	99/99/99
510-000457	AI KS308-85TG 8-P PEEL AWAY	0		0	4.000	1.000	EA	P	YN	4.000	0	0	U49,50,56 U57	03/15/92	99/99/99
510-000458	AI KS314-85TG 14-P PEEL AWAY	0		0	14.000	1.000	EA	P	YN	14.000	0	0	U7-10,20 U28,29,41 U48,51,54 U55,73,74	03/15/92	99/99/99
510-000459	AI KS624-85TG 24P(.6) PEELAWAY	0		0	2.000	1.000	EA	P	YN	2.000	0	0	U60,78	03/15/92	99/99/99
520-000032	KEYSTONE 1562-2 TURRET TMNL	0		0	1.000	1.000	EA	F	YN	1.000	0	0	TPGND	03/15/92	99/99/99

BILL OF MATERIAL

AS OF 06/07/96

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610-000288	AD840JN WIDE BAND OP AMP	1		0	6.000	1.000	EA	P	YN	6.000	0	0	U73,74	03/15/92	99/99/99
610-000289	AD842JN WIDEBAND DRIVER OP AMP	1		0	8.000	1.000	EA	P	YN	8.000	0	0	U7-10,20 U41,48,55	03/15/92	99/99/99
610-000290	MP7524JN 8b MDAC	0		0	4.000	1.000	EA	P	YN	4.000	0	0	U69,72,75 U76	03/15/92	99/99/99
610-000292	MP7645LN 12b MDAC	0		0	4.000	1.000	EA	P	YN	4.000	0	0	U58,59,67 U68	03/15/92	99/99/99
610-000293	TRW TDC1012N7C3 12b 25M DAC	0		0	2.000	1.000	EA	P	YN	2.000	0	0	U60,78	03/15/92	99/99/99
610-000295	Am686CN FAST TTL COMPARATOR	0		0	2.000	1.000	EA	P	YN	2.000	0	0	U77,89	03/15/92	99/99/99
610-000297	HARRIS HA-5320-5 SAMPL-HLD AMP	1		0	1.000	1.000	EA	P	YN	1.000	0	0	U6	03/15/92	99/99/99
610-000298	AD7572 AJN03 12-BIT ADC	1		0	1.000	1.000	EA	P	YN	1.000	0	0	U4	03/15/92	99/99/99
610-000299	DAC8222HP DUAL 12-BIT DAC	0		0	4.000	1.000	EA	P	YN	4.000	0	0	U37-40	03/15/92	99/99/99
610-000302	XO-43B-4.0 4MHz CLOCK OSC	0		0	1.000	1.000	EA	P	YN	1.000	0	0	U23	03/15/92	99/99/99
610-000303	74ALS573 OCTAL D-TYPE LATCH	0		0	2.000	1.000	EA	P	YN	2.000	0	0	U62,65	03/15/92	99/99/99
610-000306	MAX311CPE DUAL VIDEO 4 TO 1MUX	0		0	2.000	1.000	EA	P	YN	2.000	0	0	U27,31	03/15/92	99/99/99
615-001570	B108U80-16L8-ADDRESS DECODE	0	A	0	1.000	1.000	EA	X	YN	1.000	0	0	U80	03/15/92	99/99/99
615-001580	B108U24-16R8-AD CONTROL	0	B	0	1.000	1.000	EA	X	YN	1.000	0	0	U24	03/15/92	99/99/99
615-001590	B108U43-16R8-AD ADDRESS	0	A	0	1.000	1.000	EA	X	YN	1.000	0	0	U43	03/15/92	99/99/99
630-000001	2N3904 NPN 40V 10MA	0		0	1.000	1.000	EA	F	YN	1.000	0	0	Q5	03/15/92	99/99/99
630-000002	2N3906 PNP 40V 10MA	0		0	2.000	1.000	EA	F	YN	2.000	0	0	Q1,2	03/15/92	99/99/99
630-000024	SILICONIX SD211DE NDMOS FET SW	0		0	2.000	1.000	EA	P	YN	2.000	0	0	Q3,4	03/15/92	99/99/99
660-000001	6.8uf 25V 199D685X9025CA1	1		0	15.000	1.000	EA	F	YN	15.000	0	0	C113-119 C128-135	04/16/93	99/99/99
660-000009	0.01uf 100V CK05BX103K	0		0	1.000	1.000	EA	F	YN	1.000	0	0	C29	03/15/92	99/99/99
660-000010	1000pf 100VDC 1C20C0G102J050B	0		0	2.000	1.000	EA	F	YN	2.000	0	0	C103,106	04/16/93	99/99/99
660-000013	0.1uf 50WVDC CKR05BX104KR	1		0	75.000	1.000	EA	F	YN	75.000	0	0	C1-3,5-7 C9-11,13, C14,16,17 C21,22 C25-28 C30-32,34 C35,37-42 C47,50,53 C55,57,58 C60-62 C64-66,68 C70-73,76 C78-84,88 C92-95 C97,99,100 C102,104	03/15/92	99/99/99

BILL OF MATERIAL

AS OF 06/07/96

CLASS CODE GROUP: 1 UNCLASSIFIED
CLASS CODE: 100 FIB ASSEMBLIES

OP: ORDER POLICY CODE
REQ: N=PART OPTIONAL
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PF: N=PART DOES NOT PRINT ON SALES ORDER
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150-001082 OPCODE: 0 IM REV: D* 9000-SYSCON-WB DEF ANALOG DRV
MODEL:
ECO NO: 05108
DATE OF LAST ECO: 01/25/96

PART NUMBER	DESCRIPTION	OP	RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR	UM	SC	REP QF	DEFAULT QUANTITY	DAYS OFF SET	SEQ	REFERENCE DESIGNATOR	EFFECTIV DATE	OBSOLETE DATE
670-000028	470 OHM 1/4W 5% RCR07G471JS	0		0	15.000	1.000	EA	F	YN	15.000	0	0	R19,45,47 R105,117 R144 R181-183 R204-206	03/15/92	99/99/99
670-000032	1K 1/4W 5% RCR07G102JS	0		0	10.000	1.000	EA	F	YN	10.000	0	0	R40,52,55 R102 R128-130 R139,218 R227	04/16/93	99/99/99
670-000036	2.2K 1/4W 5% RCR07G222JS	0		0	6.000	1.000	EA	F	YN	6.000	0	0	R3,188,191 R202,209 R219	03/15/92	99/99/99
670-000039	3.9K 1/4W 5% RCR07G392JS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R216,217	03/15/92	99/99/99
670-000045	10K 1/4W 5% RCR07G103JS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R156,167	03/15/92	99/99/99
670-000063	270K 1/4W 5% RCR07G274JS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R220	03/15/92	99/99/99
670-000071	1M 1/4W 5% RCR07G105JS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R221	03/15/92	99/99/99
670-000091	7.5K 1/4W 5% RCR07G752JS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R180,203	03/15/92	99/99/99
670-000140	6.2K 1/4W 5% RCR07G622JS	0		0	4.000	1.000	EA	F	YN	4.000	0	0	R65,71,83 R89	03/15/92	99/99/99
670-000141	OHMITE 95J20R 20OHM 5W	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R213,214	03/15/92	99/99/99
675-000001	49.9 OHM 1/8W 1% RNC55H49R9FS	0		0	6.000	1.000	EA	F	YN	6.000	0	0	R135-138 R197,215	03/15/92	99/99/99
675-000003	75.0 OHM 1/8W 1% RNC55H75ROFS	0		0	4.000	1.000	EA	F	YN	4.000	0	0	R41-44	03/15/92	99/99/99
675-000007	121 OHM 1/8W 1% RNC55H1210FS	0		0	8.000	1.000	EA	F	YN	8.000	0	0	R9,13,17 R20,29,30 R78,79	03/15/92	99/99/99
675-000018	511 OHM 1/8W 1% RNC55H5110FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R107,119	03/15/92	99/99/99
675-000024	1.00K 1/8W 1% RNC55H1001FS	0		0	14.000	1.000	EA	F	YN	14.000	0	0	R98,141 R149-152 R166 R169-171 R178,186 R187,192 R223,224	03/15/92	99/99/99
675-000026	1.50K 1/8W 1% RNC55H1501FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R201,210	03/15/92	99/99/99
675-000029	2.00K 1/8W 1% RNC55H2001FS	0		0	14.000	1.000	EA	F	YN	14.000	0	0	R53,54,56 R57,59-61 R63,148 R159,162 R165,189	09/10/95	99/99/99

BILL OF MATERIAL

AS OF 06/07/96

CLASS CODE GROUP: 1 UNCLASSIFIED
CLASS CODE: 100 FIB ASSEMBLIES

150-001082 OPCODE: 0 IM REV: D* 9000-SYSCON-WB DEF ANALOG DRV
MODEL:
ECO NO: 05108
DATE OF LAST ECO: 01/25/96

OP: ORDER POLICY CODE
REQ:N=PART OPTIONAL
Y=PART REQUIRED
PF: N=PART DOES NOT PRINT ON SALES ORDER
Y=PART PRINTS ON SALES ORDER W/O PRICE
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PART NUMBER	DESCRIPTION	OP	RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR	UM	SC	REQF	DEFAULT QUANTITY	DAYS OFFSET	SEQ	REFERENCE DESIGNATOR	EFFECTIV DATE	OBSOLETE DATE
775-000001	22AWG CU BUS WIRE	0		0	.100	1.000	FT	F	YN	.100	0	0	JP1,JP2	01/27/95	99/99/99
ERP-004912	ECO REWORK PROCEDURE	0	A	0	.000	1.000	EA	F	YN	.000	0	0		12/11/95	99/99/99

BILL OF MATERIAL

AS OF 06/07/96

CLASS CODE GROUP: 1 UNCLASSIFIED
CLASS CODE: 100 FIB ASSEMBLIES

150-001083 OPCODE: 0 IM REV: D* 9000EX-SYSCON-WB DEF ANALOG DR
MODEL:
ECO NO: 05108
DATE OF LAST ECO: 01/25/96

OP: ORDER POLICY CODE
REQ: N=PART OPTIONAL
Y=PART REQUIRED
PF: N=PART DOES NOT PRINT ON SALES ORDER
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PART NUMBER	DESCRIPTION	OP	RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR	UM	SC	REQF	DEFAULT QUANTITY	DAYS OFF SET	SEQ	REFERENCE DESIGNATOR	EFFECTIV DATE	OBSOLETE DATE
600-000013	AAVID 5772B HEAT SINK	0		0	2.000	1.000	EA	P	YN	2.000	0	0	U85,86	03/15/92	99/99/99
610-000001	74ALS00 QUAD 2-INPUT NAND	1		0	1.000	1.000	EA	P	YN	1.000	0	0	U46	03/15/92	99/99/99
610-000003	74ALS04 HEX INVERTER	1		0	1.000	1.000	EA	P	YN	1.000	0	0	U90	03/15/92	99/99/99
610-000005	74ALS32 QUAD 2-INPUT OR	1		0	1.000	1.000	EA	P	YN	1.000	0	0	U45	03/15/92	99/99/99
610-000009	74ALS240 OCTAL BUFFER/DRIVER	1		0	1.000	1.000	EA	P	YN	1.000	0	0	U2	03/15/92	99/99/99
610-000010	74ALS244 OCTAL BUFFER/DRIVER	1		0	9.000	1.000	EA	P	YN	9.000	0	0	U3,21,25 U63,64, U97-100	03/15/92	99/99/99
610-000013	uA7805C 5V 1.5A REG	1		0	1.000	1.000	EA	P	YN	1.000	0	0	U85	03/15/92	99/99/99
610-000031	TL081ACP BIFET OP-AMP	1		0	1.000	1.000	EA	P	YN	1.000	0	0	U101	04/16/93	99/99/99
610-000046	74ALS640 INVERT BUS DRIVER	1		0	2.000	1.000	EA	P	YN	2.000	0	0	U82,83	03/15/92	99/99/99
610-000074	74ALS138 3-TO-8 DECODER	1		0	2.000	1.000	EA	P	YN	2.000	0	0	U47,84	03/15/92	99/99/99
610-000075	74ALS139 2-TO-4 DECODER	1		0	1.000	1.000	EA	P	YN	1.000	0	0	U26	03/15/92	99/99/99
610-000094	N8T98 INVERT HEX BUS DRIVER	1		0	1.000	1.000	EA	P	YN	1.000	0	0	U81	03/15/92	99/99/99
610-000115	74ALS164 8-BIT SHIFT REGISTER	1		0	1.000	1.000	EA	P	YN	1.000	0	0	U42	03/15/92	99/99/99
610-000125	TL082ACP DUAL BIFET OP-AMP	1		0	15.000	1.000	EA	P	YN	15.000	0	0	U5,12-19 U32-34,52 U66,95	09/10/95	99/99/99
610-000134	74LS85 4-BIT COMPARATOR	0		0	1.000	1.000	EA	P	YN	1.000	0	0	U79	03/15/92	99/99/99
610-000151	74ALS273 OCTAL D FLIP-FLOP	1		0	3.000	1.000	EA	P	YN	3.000	0	0	U1,22,44	03/15/92	99/99/99
610-000219	DG201ACJ QUAD SPST ANALOG SW	1		0	1.000	1.000	EA	P	YN	1.000	0	0	U96	03/15/92	99/99/99
610-000220	ADG508AKN 8-CHAN CMOS MULTIPLX	1		0	3.000	1.000	EA	P	YN	3.000	0	0	U11,30,53	03/15/92	99/99/99
610-000224	HARRIS HA2-5160-5 OP AMP	1		0	4.000	1.000	EA	P	YN	4.000	0	0	U49,50,56 U57	03/15/92	99/99/99
610-000231	uA7905C -5V 1.5A REG	0		0	1.000	1.000	EA	P	YN	1.000	0	0	U86	03/15/92	99/99/99
610-000232	AD767KN 12-BIT DAC	0		0	4.000	1.000	EA	P	YN	4.000	0	0	U35,36,70 U71	03/15/92	99/99/99
610-000234	74ALS574N OCTAL D FLIP-FLOP	1		0	4.000	1.000	EA	P	YN	4.000	0	0	U91-94	03/15/92	99/99/99
610-000276	AD668JQ 12b FAST MDAC	0		0	2.000	1.000	EA	P	YN	2.000	0	0	U87,88	03/15/92	99/99/99
610-000277	74LS688 8-BIT COMPARATOR	1		0	1.000	1.000	EA	P	YN	1.000	0	0	U61	03/15/92	99/99/99
610-000288	AD840JN WIDE BAND OP AMP	1		0	6.000	1.000	EA	P	YN	6.000	0	0	U28,29 U51,54 U73,74	03/15/92	99/99/99
610-000289	AD842JN WIDEBAND DRIVER OP AMP	1		0	8.000	1.000	EA	P	YN	8.000	0	0	U7-10,20 U41,48,55	03/15/92	99/99/99
610-000290	MP7524JN 8b MDAC	0		0	4.000	1.000	EA	P	YN	4.000	0	0	U69,72,75 U76	03/15/92	99/99/99
610-000292	MP7645LN 12b MDAC	0		0	4.000	1.000	EA	P	YN	4.000	0	0	U58,59,67 U68	03/15/92	99/99/99
610-000293	TRW TDC1012N7C3 12b 25M DAC	0		0	2.000	1.000	EA	P	YN	2.000	0	0	U60,78	03/15/92	99/99/99
610-000295	Am686CN FAST TTL COMPARATOR	0		0	2.000	1.000	EA	P	YN	2.000	0	0	U77,89	03/15/92	99/99/99

BILL OF MATERIAL
AS OF 06/07/96

CLASS CODE GROUP: 1 UNCLASSIFIED
CLASS CODE: 100 FIB ASSEMBLIES

150-001083 OPCODE: 0 IM REV: D* 9000EX-SYSCON-WB DEF ANALOG DR
MODEL:
ECO NO: 05108
DATE OF LAST ECO: 01/25/96

OP: ORDER POLICY CODE
REQ:N=PART OPTIONAL
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PF: N=PART DOES NOT PRINT ON SALES ORDER
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PART NUMBER	DESCRIPTION	OP	RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR	UM	SC	REQF	DEFAULT QUANTITY	DAYS OFFSET	SEQ	REFERENCE DESIGNATOR	EFFECTIV DATE	OBSOLETE DATE
660-000018	20pf 500V CM04-ED200J03	0		0	2.000	1.000	EA	P	YN	2.000	0	0	C52,69	09/10/95	99/99/99
660-000022	10pf 500VDC CM05-CD100D03	0		0	8.000	1.000	EA	F	YN	8.000	0	0	C18-20,23 C43-46	04/16/93	99/99/99
660-000027	33pf 500VDC CM05-ED330G03	0		0	6.000	1.000	EA	F	YN	6.000	0	0	C48,75,85 C90,91,96	03/15/92	99/99/99
660-000028	5pf 500VDC CM04-CD050D03	0		0	6.000	1.000	EA	F	YN	6.000	0	0	C54,56,59 C63,74,77	04/16/93	99/99/99
660-000029	47pf 500VDC CM04-ED470J03	0		0	5.000	1.000	EA	F	YN	5.000	0	0	C109, C139-142	01/27/95	99/99/99
660-000038	3.0pf 500V CD15-CD030D03	0		0	8.000	1.000	EA	F	YN	8.000	0	0	C4,8,12,15 C24,49,126 C127	04/16/93	99/99/99
660-000054	200pf 500V CM04-FD201J03	0		0	1.000	1.000	EA	F	YN	1.000	0	0	C86	03/15/92	99/99/99
660-000067	2pf 500VDC CD15-CD020D03	0		0	4.000	1.000	EA	F	YN	4.000	0	0	C33,36 C98,101	03/15/92	99/99/99
670-000008	10 OHM 1/4W 5% RCR07G100JS	0		0	36.000	1.000	EA	F	YN	36.000	0	0	R6,7,10,11 R14,16,18 R46,58,62 R64,100 R109 R113-115 R125,131 R143,145 R153-155 R157,160 R163,164 R173-177 R193-196	03/15/92	99/99/99
670-000017	51 OHM 1/4W 5% RCR07G510JS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R232	08/18/95	99/99/99
670-000020	100 OHM 1/4W 5% RCR07G101JS	0		0	10.000	1.000	EA	F	YN	10.000	0	0	R101, R230, R233-240	01/27/95	99/99/99
670-000028	470 OHM 1/4W 5% RCR07G471JS	0		0	15.000	1.000	EA	F	YN	15.000	0	0	R8,12,15 R19,45,47 R105,117 R144 R181-183 R204-206	03/15/92	99/99/99
670-000032	1K 1/4W 5% RCR07G102JS	0		0	10.000	1.000	EA	F	YN	10.000	0	0	R40,52,55 R102 R128-130	08/18/95	99/99/99

BILL OF MATERIAL

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150-001083 OPCODE: 0 IM REV: D* 9000EX-SYSCON-WB DEF ANALOG DR
MODEL:
ECO NO: 05108
DATE OF LAST ECO: 01/25/96

PART NUMBER	DESCRIPTION	OP	RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR	UM	SC	REP QF	DEFAULT QUANTITY	DAYS OFF SET	SEQ	REFERENCE DESIGNATOR	EFFECTIV DATE	OBSOLETE DATE
675-000039	7.50K 1/8W 1% RNC55H7501FS	0		0	6.000	1.000	EA	F	YN	6.000	0	0	R93-96,106 R118	03/15/92	99/99/99
675-000042	10.0K 1/8W 1% RNC55H1002FS	0		0	6.000	1.000	EA	F	YN	6.000	0	0	R1,2,4,5 R134,198	03/15/92	99/99/99
675-000044	15.0K 1/8W 1% RNC55H1502FS	0		0	26.000	1.000	EA	F	YN	26.000	0	0	R21-28 R31,32 R34-36,38 R66,68,73 R74,75,81 R82,84,87 R92,132 R133	03/15/92	99/99/99
675-000047	20.0K 1/8W 1% RNC55H2002FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R39,142	04/16/93	99/99/99
675-000048	22.1K 1/8W 1% RNC55H2212FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R97,139	10/01/92	99/99/99
675-000050	30.1K 1/8W 1% RNC55H3012FS	0		0	16.000	1.000	EA	F	YN	16.000	0	0	R67,69,70 R72,76,77 R80,85,86 R88,90,91 R184,185 R211,212	09/10/95	99/99/99
675-000056	68.1K 1/8W 1% RNC55H6812FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R104,121	10/01/92	99/99/99
675-000057	75.0K 1/8W 1% RNC55H7502FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R112,124	04/16/93	99/99/99
675-000084	24.9K 1/8W 1% RNC55H2492FS	0		0	3.000	1.000	EA	F	YN	3.000	0	0	R50,111 R123	03/15/92	99/99/99
675-000094	49.9 OHM 1/4W 1% RNC60H49R9FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R99,179	03/15/92	99/99/99
675-000147	422OHM 1/8W 1% RN55D4220F	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R110,122	03/15/92	99/99/99
675-000164	6.19K 1/8W 1% RNC55H6191FS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R49	03/15/92	99/99/99
675-000165	13.0K 1/8W 1% RNC55H1302FS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R48	03/15/92	99/99/99
675-000166	287 OHM 1/8W 1% RNC55H2870FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R146,172	03/15/92	99/99/99
675-000174	2.15K 1/8W 1% RNC55H2151FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R158,161	09/10/95	99/99/99
680-000010	BOURNS 3009P-1-203 20K	0		0	2.000	1.000	EA	P	YN	2.000	0	0	R103,116	03/15/92	99/99/99
680-000026	BOURNS 3296W-1-101 100 OHM	0		0	2.000	1.000	EA	P	YN	2.000	0	0	R126,127	03/15/92	99/99/99
685-000010	BOURNS 4308R-102-102 1K SIP	0		0	8.000	1.000	EA	F	YN	8.000	0	0	RN1,2,4-9	04/16/93	99/99/99
685-000018	BOURNS 4308R-101-332 3.3K SIP	0		0	1.000	1.000	EA	F	YN	1.000	0	0	RN3	03/15/92	99/99/99
ERP-004912	ECO REWORK PROCEDURE	0	A	0	.000	1.000	EA	F	YN	.000	0	0		12/11/95	99/99/99

BILL OF MATERIAL

AS OF 06/07/96

CLASS CODE GROUP: 1 UNCLASSIFIED
CLASS CODE: 100 FIB ASSEMBLIES

150-001801 OPCODE: 0 IM REV: B* 9000-STD KNOB PNL-MAIN CONT BD
MODEL:
ECO NO: 05157
DATE OF LAST ECO: 02/21/96

OP: ORDER POLICY CODE
REQ: N=PART OPTIONAL
Y=PART REQUIRED
PF: N=PART DOES NOT PRINT ON SALES ORDER
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PART NUMBER	DESCRIPTION	OP	RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR	UM	SC	REQ	DEFAULT QUANTITY	DAYS OFF SET	SEQ	REFERENCE DESIGNATOR	EFFECTIV DATE	OBSOLETE DATE
660-000001	6.8uf 25V 199D685X9025CA1	1		0	4.000	1.000	EA	F	YN	4.000	0	0	C4,7-9	00/00/00	99/99/99
660-000009	0.01uf 100V CK05BX103K	0		0	17.000	1.000	EA	F	YN	17.000	0	0	C1-3,5,7 C10,12-14 C16,18-20 C22,23,25 C26	00/00/00	99/99/99
660-000013	0.1uf 50WVDC CKR05BX104KR	1		0	1.000	1.000	EA	F	YN	1.000	0	0	C11	00/00/00	99/99/99
660-000020	470pf 200WVDC CKR05BX471ML	0		0	2.000	1.000	EA	F	YN	2.000	0	0	C17,27	00/00/00	99/99/99
660-000050	22uf 25V 199D226X9025DA1	0		0	1.000	1.000	EA	F	YN	1.000	0	0	C21	00/00/00	99/99/99
660-000054	200pf 500V CM04-FD201J03	0		0	2.000	1.000	EA	F	YN	2.000	0	0	C15,24	00/00/00	99/99/99
670-000008	10 OHM 1/4W 5% RCR07G100JS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R51,52	00/00/00	99/99/99
670-000020	100 OHM 1/4W 5% RCR07G101JS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R45,49	00/00/00	99/99/99
670-000027	390 OHM 1/4W 5% RCR07G391JS	0		0	38.000	1.000	EA	F	YN	38.000	0	0	R1-3 R6-14 R24-35,44 R54-57 R60-67,71	00/00/00	99/99/99
670-000028	470 OHM 1/4W 5% RCR07G471JS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R15,16	00/00/00	99/99/99
670-000032	1K 1/4W 5% RCR07G102JS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R53	00/00/00	99/99/99
670-000040	4.7K 1/4W 5% RCR07G472JS	0		0	3.000	1.000	EA	F	YN	3.000	0	0	R36,58,59	00/00/00	99/99/99
670-000045	10K 1/4W 5% RCR07G103JS	0		0	13.000	1.000	EA	F	YN	13.000	0	0	R20-23,37 R41-43,50 R68,69 R72,73	00/00/00	99/99/99
675-000022	825 OHM 1/8W 1% RNC55H8250FS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R70	00/00/00	99/99/99
675-000028	1.82K 1/8W 1% RNCGGH1821FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R38,46	00/00/00	99/99/99
675-000029	2.00K 1/8W 1% RNC55H2001FS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R4	00/00/00	99/99/99
675-000034	3.92K 1/8W 1% RNC55H3921FS	0		0	4.000	1.000	EA	F	YN	4.000	0	0	R17,19 R40,48	00/00/00	99/99/99
675-000050	30.1K 1/8W 1% RNC55H3012FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R39,47	00/00/00	99/99/99
675-000062	150K 1/8W 1% RNC55H1503FS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R5	00/00/00	99/99/99
675-000129	34.0K 1/8W 1% RNC55H3402FS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R18	00/00/00	99/99/99
685-000005	BOURNS 4310R-101-103 10K SIP	0		0	6.000	1.000	EA	F	YN	6.000	0	0	RN1-RN6	00/00/00	99/99/99

BILL OF MATERIAL

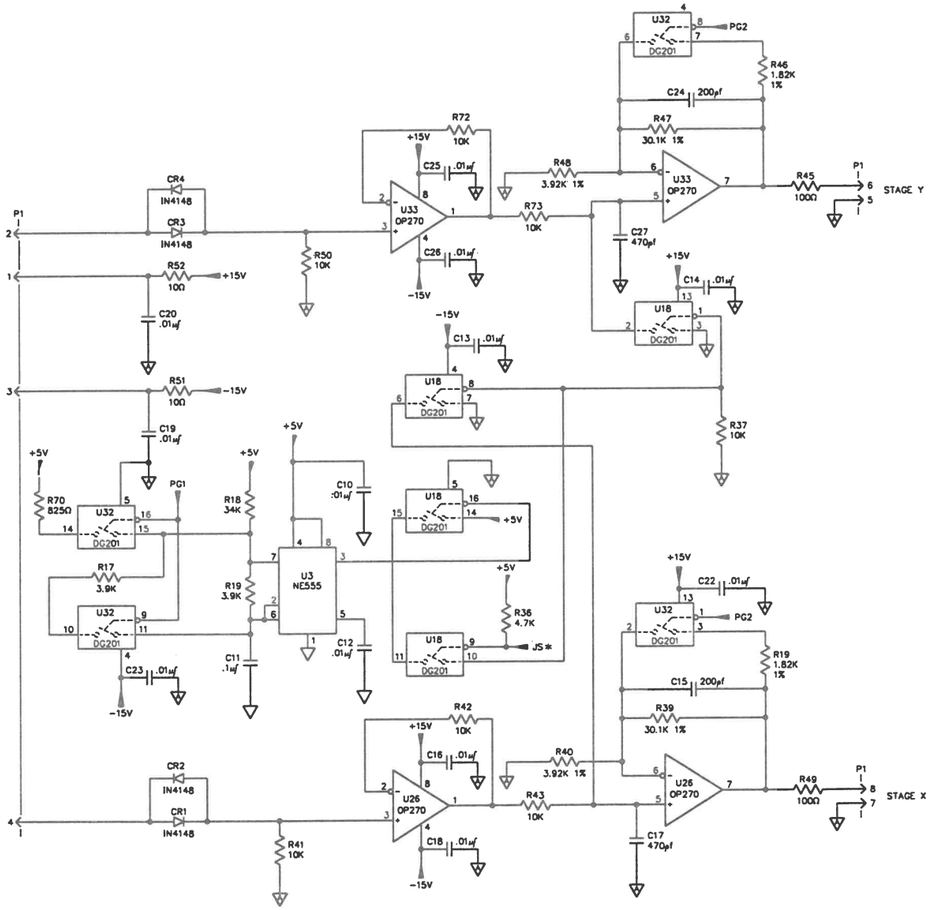
AS OF 06/07/96

CLASS CODE GROUP: 1 UNCLASSIFIED
CLASS CODE: 100 FIB ASSEMBLIES

OP: ORDER POLICY CODE
REQ: N=PART OPTIONAL
Y=PART REQUIRED
PF: N=PART DOES NOT PRINT ON SALES ORDER
Y=PART PRINTS ON SALES ORDER W/O PRICE
P=PART PRINTS ON SALES ORDER WITH PRICE

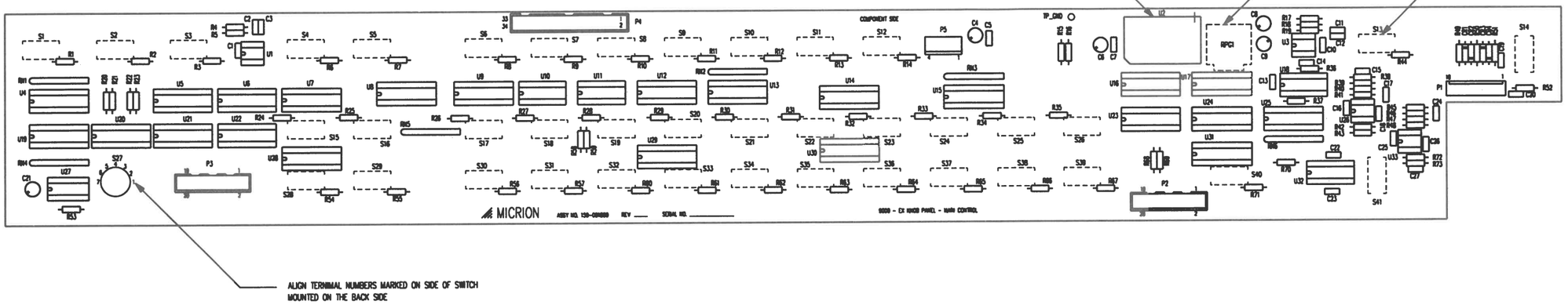
150-001800 OPCODE: 0 IM REV: B* 9000-EX KNOB PNL-MAIN CONT BD
MODEL:
ECO NO: 05157
DATE OF LAST ECO: 02/21/96

PART NUMBER	DESCRIPTION	OP	RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR	UM	SC	REQP	DEFAULT QUANTITY	DAYS OFF SET	SEQ	REFERENCE DESIGNATOR	EFFECTIV DATE	OBSOLETE DATE
660-000001	6.8uf 25V 199D685X9025CA1	1		0	4.000	1.000	EA	F	YN	4.000	0	0	C4,7-9	00/00/00	99/99/99
660-000009	0.01uf 100V CK05BX103K	0		0	17.000	1.000	EA	F	YN	17.000	0	0	C1-3,5,7 C10,12-14 C16,18-20 C22,23,25 C26	00/00/00	99/99/99
660-000013	0.1uf 50WVDC CKR05BX104KR	1		0	1.000	1.000	EA	F	YN	1.000	0	0	C11	00/00/00	99/99/99
660-000020	470pf 200WVDC CKR05BX471ML	0		0	2.000	1.000	EA	F	YN	2.000	0	0	C17,27	00/00/00	99/99/99
660-000050	22uf 25V 199D226X9025DA1	0		0	1.000	1.000	EA	F	YN	1.000	0	0	C21	00/00/00	99/99/99
660-000054	200pf 500V CM04-FD201J03	0		0	2.000	1.000	EA	F	YN	2.000	0	0	C15,24	00/00/00	99/99/99
670-000008	10 OHM 1/4W 5% RCR07G100JS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R51,52	00/00/00	99/99/99
670-000020	100 OHM 1/4W 5% RCR07G101JS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R45,49	00/00/00	99/99/99
670-000027	390 OHM 1/4W 5% RCR07G391JS	0		0	38.000	1.000	EA	F	YN	38.000	0	0	R1-3 R6-14 R24-35,44 R54-57 R60-67,71	00/00/00	99/99/99
670-000028	470 OHM 1/4W 5% RCR07G471JS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R15,16	00/00/00	99/99/99
670-000032	1K 1/4W 5% RCR07G102JS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R53	00/00/00	99/99/99
670-000040	4.7K 1/4W 5% RCR07G472JS	0		0	3.000	1.000	EA	F	YN	3.000	0	0	R36,58,59	00/00/00	99/99/99
670-000045	10K 1/4W 5% RCR07G103JS	0		0	13.000	1.000	EA	F	YN	13.000	0	0	R20-23,37 R41-43,50 R68,69 R72,73	00/00/00	99/99/99
675-000022	825 OHM 1/8W 1% RNC55H8250FS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R70	00/00/00	99/99/99
675-000028	1.82K 1/8W 1% RNCGGH1821FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R38,46	00/00/00	99/99/99
675-000029	2.00K 1/8W 1% RNC55H2001FS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R4	00/00/00	99/99/99
675-000034	3.92K 1/8W 1% RNC55H3921FS	0		0	4.000	1.000	EA	F	YN	4.000	0	0	R17,19 R40,48	00/00/00	99/99/99
675-000050	30.1K 1/8W 1% RNC55H3012FS	0		0	2.000	1.000	EA	F	YN	2.000	0	0	R39,47	00/00/00	99/99/99
675-000062	150K 1/8W 1% RNC55H1503FS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R5	00/00/00	99/99/99
675-000129	34.0K 1/8W 1% RNC55H3402FS	0		0	1.000	1.000	EA	F	YN	1.000	0	0	R18	00/00/00	99/99/99
685-000005	BOURNS 4310R-101-103 10K SIP	0		0	6.000	1.000	EA	F	YN	6.000	0	0	RN1-RN6	00/00/00	99/99/99



PROPRIETARY NOTICE		Micrion	
		TITLE	9000-EX KNOB PANEL-MAIN CONTROL BD
		SIZE	DRAWING NO.
135-001800	A	E	135-001800
PART NUMBER	REV		
PART REV LEVEL		SCALE NONE	WT SHEET 3 OF 3

REVISIONS					
REV	ECO	DESCRIPTION OF CHANGE	DRFT'R	DATE	APPROVED
A		INITIAL	[illegible]	[illegible]	
B		[illegible]	[illegible]	[illegible]	


DO NOT USE A SOCKET FOR U2
ALL SWITCHES, AND ROTARY POTS ARE MOUNTED ON THE BACK SIDE
COMPONENT SIDE
TP_GND
MICRION
ASSY NO. 150-001800
REV
SERIAL NO.
9000 - EX KNOB PANEL - MAIN CONTROL
ALIGN TERMINAL NUMBERS MARKED ON SIDE OF SWITCH MOUNTED ON THE BACK SIDE

REFERENCE DESIGNATIONS	
LAST USED	NOT USED
C27	
CR4	
P5	
R73	
RN6	
RPG1	
S41	
U33	

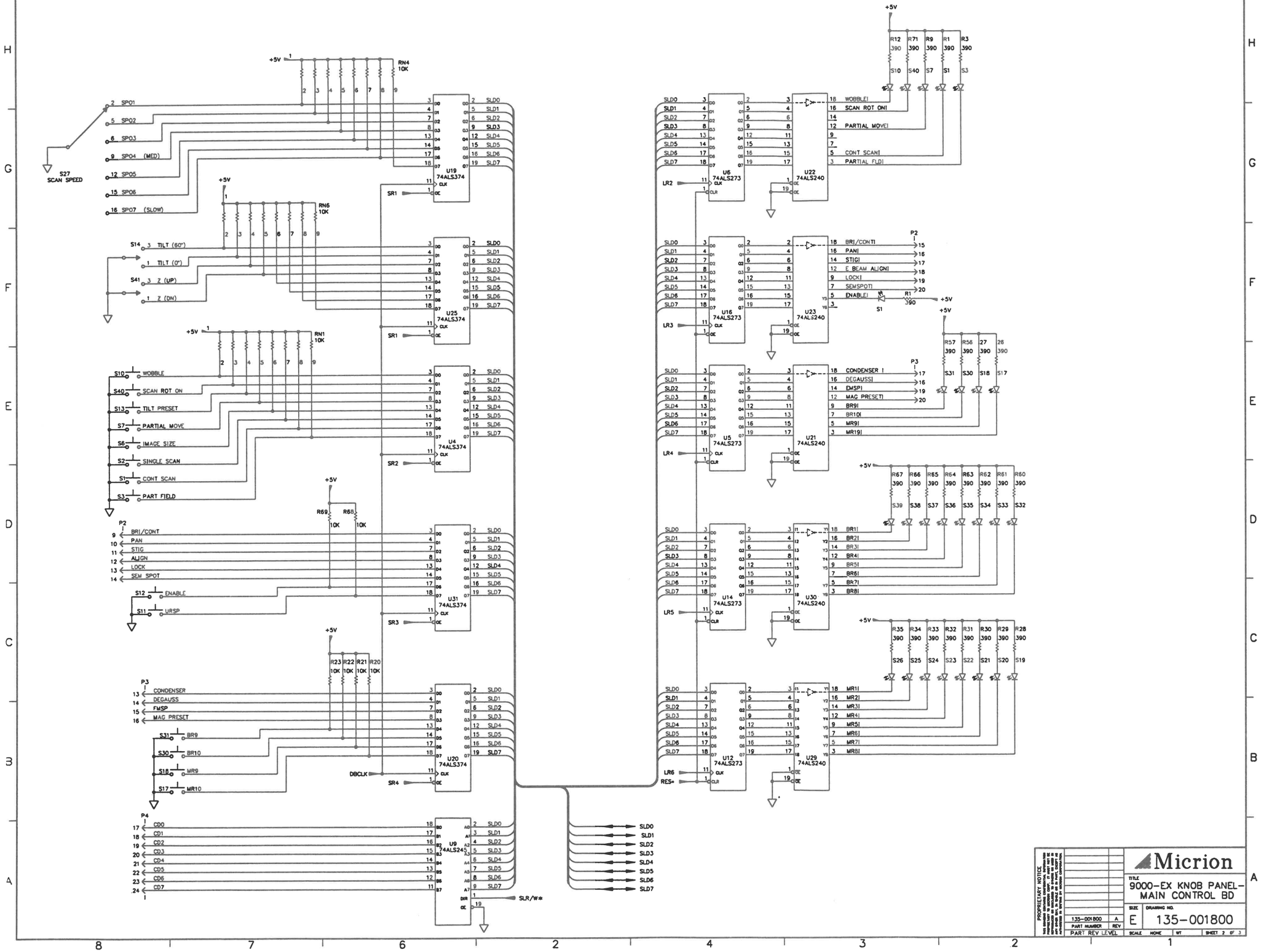
DO NOT SCALE THIS DRAWING

MICRION

9000 - EX KNOB PANEL - MAIN CONTROL PCB ASSEMBLY

SIZE D | DRAWING NO. 155-001800

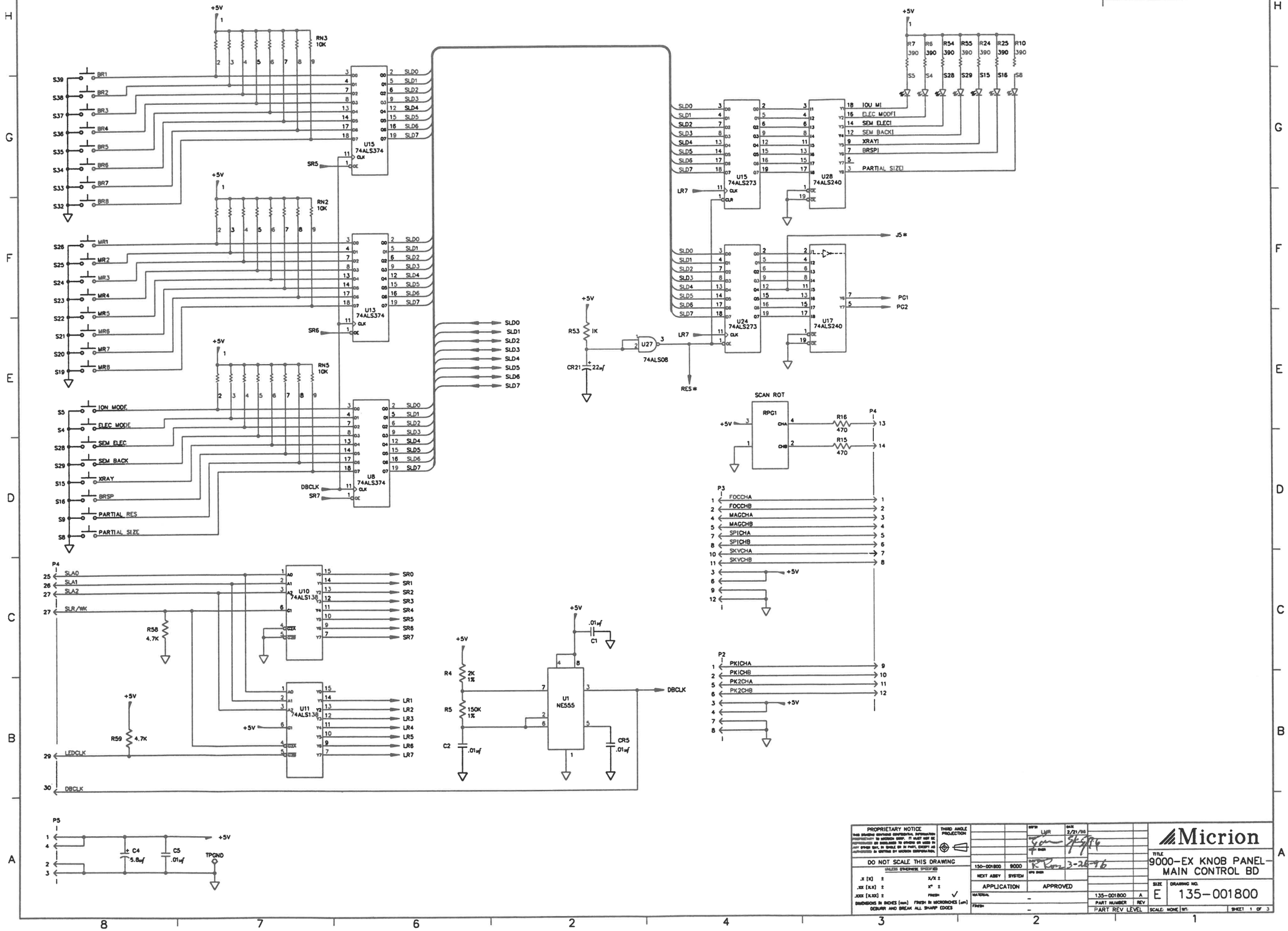
SCALE 1:1 | WT | SHEET 1 OF 1


S27 SCAN SPEED
SP01
SP02
SP03
SP04 (MED)
SP05
SP06
SP07 (SLOW)
RN4 10K
U19 74ALS374
SR1
S14 TILT (60°)
TILT (0°)
S41 Z (UP)
Z (DN)
RN6 10K
U25 74ALS374
RN1 10K
S10 WOBBLE
S40 SCAN ROT ON
S13 TILT PRESET
S7 PARTIAL MOVE
S6 IMAGE SIZE
S2 SINGLE SCAN
S1 CONT SCAN
S3 PART FIELD
U4 74ALS374
SR2
R69 10K
R68 10K
P2
BRI/CONT
PAN
STIG
ALIGN
LOCK
SEM SPOT
S12 ENABLE
S11 URSP
U31 74ALS374
SR3
R23 10K
R22 10K
R21 10K
R20 10K
P3
CONDENSER
DEGAUSS
FMSP
MAG PRESET
S31 BR9
S30 BR10
S18 MR9
S17 MR10
DBCLK
SR4
U20 74ALS374
P4
CD0
CD1
CD2
CD3
CD4
CD5
CD6
CD7
U9 74ALS245
SLR/W*
SLD0
SLD1
SLD2
SLD3
SLD4
SLD5
SLD6
SLD7
+5V
R12 390
R71 390
R9 390
R1 390
R3 390
S10
S40
S7
S1
S3
U6 74ALS273
LR2
U22 74ALS240
WOBBLE!
SCAN ROT ON!
PARTIAL MOVE!
CONT SCAN!
PARTIAL FLD!
U16 74ALS273
LR3
U23 74ALS240
BRI/CONT!
PAN!
STIG!
E BEAM ALIGN!
LOCK!
SEMSPOT!
ENABLE!
R1 390
P2
P3
U5 74ALS273
LR4
U21 74ALS240
CONDENSER !
DEGAUSS!
FMSP!
MAG PRESET!
BR9!
BR10!
MR9!
MR10!
R57 390
R58 390
R27 390
R26 390
S31
S30
S18
S17
R67 390
R66 390
R65 390
R64 390
R63 390
R62 390
R61 390
R60 390
S39
S38
S37
S36
S35
S34
S33
S32
U14 74ALS273
LR5
U30 74ALS240
BR1!
BR2!
BR3!
BR4!
BR5!
BR6!
BR7!
BR8!
R35 390
R34 390
R33 390
R32 390
R31 390
R30 390
R29 390
R28 390
S26
S25
S24
S23
S22
S21
S20
S19
U12 74ALS273
LR6
RES*
U29 74ALS240
MR1!
MR2!
MR3!
MR4!
MR5!
MR6!
MR7!
MR8!
PROPRIETARY NOTICE
Micron
TITLE
9000-EX KNOB PANEL-
MAIN CONTROL BD
SIZE
E
DRAWING NO.
135-001800
135-001800
A
PART NUMBER
REV
PART REV LEVEL
SCALE
NONE
WT
SHEET 2 OF 3

FABRICATION NOTES

DO NOT FABRICATE THIS PART IF ENGR APPR SIGNATURE IS MISSING FROM MOST RECENT REV

REVISIONS				
ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	ENGR APPR
47898	RELEASED		3/20/96	TP, WHM



PROPRIETARY NOTICE

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THIRD ANGLE PROJECTION

DO NOT SCALE THIS DRAWING
UNLESS OTHERWISE SPECIFIED

.X [X] ±
.XX [X.X] ±
.XXX [X.XX] ±
X/X ±
X° ±
FINISH ✓
DIMENSIONS IN INCHES [mm] FINISH IN MICROINCHES [µm]
DEBURR AND BREAK ALL SHARP EDGES

	DRFTR	DATE
	LMR	2/21/96
DESIGN		
ENGR		3-26-96
QTE ENGR		

130-001800 9000
NEXT ASSY SYSTEM
APPLICATION APPROVED
MATERIAL –
FINISH –

Micrion

TITLE
9000-EX KNOB PANEL-MAIN CONTROL BD

SIZE E DRAWING NO. 135-001800

135-001800 A
PART NUMBER REV
PART REV LEVEL
SCALE: NONE WT: SHEET 1 OF 3

DISTRIBUTION: USER -

BILL OF MATERIAL

AS OF 06/19/96

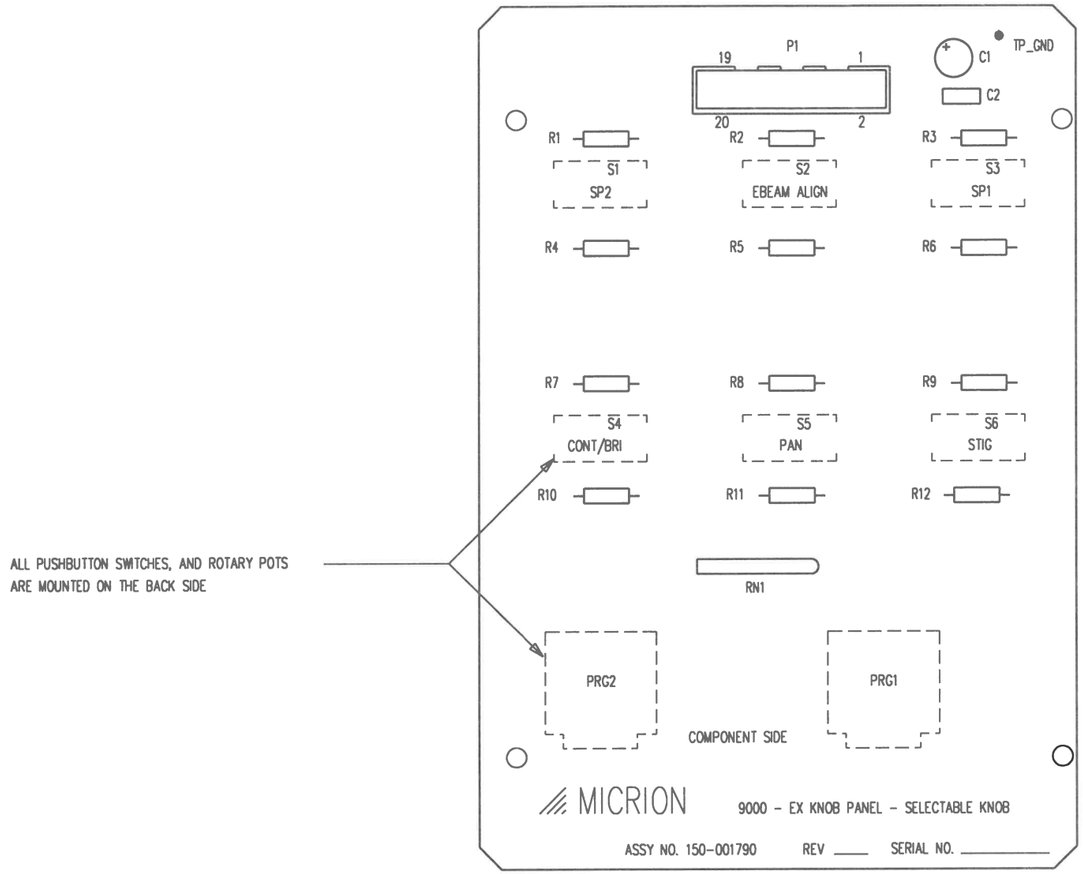
CLASS CODE GROUP: 1 UNCLASSIFIED
CLASS CODE: 100 FIB ASSEMBLIES

150-001791 OPCODE: 0 IM REV: C1 9000-STD KNOB PNL-SELECT KNOB
MODEL:
ECO NO: 05409
DATE OF LAST ECO: 06/19/96

OP: ORDER POLICY CODE
REQ:N=PART OPTIONAL
Y=PART REQUIRED
PF: N=PART DOES NOT PRINT ON SALES ORDER
Y=PART PRINTS ON SALES ORDER W/O PRICE
P=PART PRINTS ON SALES ORDER WITH PRICE

PART NUMBER	DESCRIPTION	OP	RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR	UM	SC	REQF	DEFAULT QUANTITY	DAYS OFF SET	SEQ	REFERENCE DESIGNATOR	EFFECTIV DATE	OBSOLETE DATE
*** C1 ***	ASSEMBLY REVISION LEVEL	0		0	.000	1.000	EA	F	YN	.000	0	0		06/19/96	99/99/99
135-001791	9000-SELECT KNOB BD-SCHEM	0	C1	0	.000	1.000	EA	ZB	YN	.000	0	0		00/00/00	99/99/99
140-001790	9000-SELECT KNOB BD-PCB	0	C	0	1.000	1.000	EA	P	YN	1.000	0	0		00/00/00	99/99/99
155-001790	EXKNOB PNL-SELECT KNOB BD-ASSY	0	C	0	.000	1.000	EA	ZB	YN	.000	0	0		00/00/00	99/99/99
500-000042	3M 3518 POLARIZING KEY	0		0	2.000	1.000	EA	F	YN	2.000	0	0	P1	00/00/00	99/99/99
510-000577	3M 2520-6002VB 20-P LO PRO HDR	0		0	1.000	1.000	EA	P	YN	1.000	0	0	P1	00/00/00	99/99/99
520-000032	KEYSTONE 1562-2 TURRET TMNL	0		0	1.000	1.000	EA	F	YN	1.000	0	0	TPGND	00/00/00	99/99/99
610-000263	HRPG-ASCA 14R OPT POT 120CPR	0		0	2.000	1.000	EA	P	YN	2.000	0	0	RPG1,RPG2	00/00/00	99/99/99
650-000083	C&K 8125J95V3BE-1 WHT MOM WLED	0		0	5.000	1.000	EA	P	YN	5.000	0	0	S2-S6	00/00/00	99/99/99
660-000001	6.8uf 25V 199D685X9025CA1	1		0	1.000	1.000	EA	F	YN	1.000	0	0	C1	00/00/00	99/99/99
660-000009	0.01uf 100V CK05BX103K	0		0	1.000	1.000	EA	F	YN	1.000	0	0	C2	00/00/00	99/99/99
670-000027	390 OHM 1/4W 5% RCR07G391JS	0		0	6.000	1.000	EA	F	YN	6.000	0	0	R4-6,10-12	00/00/00	99/99/99
670-000045	10K 1/4W 5% RCR07G103JS	0		0	6.000	1.000	EA	F	YN	6.000	0	0	R1-3,7-9	00/00/00	99/99/99
685-000007	BOURNS 4308R-102-471 470 SIP	0		0	1.000	1.000	EA	F	YN	1.000	0	0	RN1	00/00/00	99/99/99

REVISIONS					
REV	ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
A		RELEASE	GAGNE	6/8/95	
B		BOARD MADE SMALLER	GAGNE	8/16/95	
C		HOLE SIZE CHANGE	GAGNE	1/2/96	



ALL PUSHBUTTON SWITCHES, AND ROTARY POTS ARE MOUNTED ON THE BACK SIDE

REFERENCE DESIGNATIONS	
LAST USED	NOT USED
C2	
P1	
R12	
RN1	
RPG2	
S6	

PROPRIETARY NOTICE
THIS DRAWING CONTAINS CONFIDENTIAL INFORMATION PROPRIETARY TO MICRION CORP. IT MUST NOT BE REPRODUCED OR DISCLOSED TO OTHERS OR USED IN ANY MANNER BUT IN WHOLE OR IN PART EXCEPT AS AUTHORIZED IN WRITING BY MICRION CORPORATION.

DO NOT SCALE THIS DRAWING

DIMENSIONS IN INCHES

UNLESS OTHERWISE SPECIFIED
X +/- .1 X/X +/- 1/32
.XX +/- .01 X° +/- 30°
.XXX +/- .005 63

CONCENTRICITY .005 TIR

DEBURR AND BREAK ALL SHARP EDGES

		DRFTR EASTERN CIRCUITS	DATE 6/8/95
		CHKR	
		MECH ENGR	
		ELEC ENGR	
150-001790		MFG ENGR	
NEXT ASSY	SYSTEM		
APPLICATION		APPROVED	
MATERIAL	SEE BOM		
FINISH	—		

155-001790	C
PART NUMBER	REV
PART REV LEVEL	

MICRION

TITLE: 9000 - EX KNOB PANEL - SELECTABLE KNOB PCB ASSEMBLY

SIZE D | DRAWING NO. 155-001790

SCALE 2 : 1 | WT | SHEET 1 OF 1

DISTRIBUTION: USER -

BILL OF MATERIAL

AS OF 06/07/96

CLASS CODE GROUP: 1 UNCLASSIFIED
CLASS CODE: 100 FIB ASSEMBLIES

160-005460 OPCODE: 0 IM REV: A 9000EX-SEM COL-DIPS DC PWR HRN
MODEL:
ECO NO: 04378
DATE OF LAST ECO: 02/29/96

OP: ORDER POLICY CODE
REQ: N=PART OPTIONAL
Y=PART REQUIRED
PF: N=PART DOES NOT PRINT ON SALES ORDER
Y=PART PRINTS ON SALES ORDER W/O PRICE
P=PART PRINTS ON SALES ORDER WITH PRICE

PART NUMBER	DESCRIPTION	OP	RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR	UM	SC	REQ	DEFAULT QUANTITY	DAYS OFF SET	SEQ	REFERENCE DESIGNATOR	EFFECTIV DATE	OBSOLETE DATE
*** A ***	ASSEMBLY REVISION LEVEL	0		0	.000	1.000	EA	F	YN	.000	0	0		11/02/94	99/99/99
162-005460	SEM COL-DIPS DC PWR HRN-LBL KT	0	A	1	1.000	1.000	EA	X	YN	1.000	0	0		00/00/00	99/99/99
163-005460	SEM COL-DIPS DC PWR HRN-SCHEM	0	A	0	.000	1.000	EA	ZB	YN	.000	0	0		00/00/00	99/99/99
164-005460	SEM COL-DIPS DC PWR HRN-RN LST	0	A	0	.000	1.000	EA	F	YN	.000	0	0		00/00/00	99/99/99
510-000087	AMP 350550-1 SKT 20-14AWG	0		6	4.000	1.000	EA	F	YN	4.000	0	0	J5	00/00/00	99/99/99
510-000127	AMP 1-480699-0 2-P CA PLUG	0		3	1.000	1.000	EA	P	YN	1.000	0	0	P2	00/00/00	99/99/99
510-000151	AMP 350547-1 PIN 20-14AWG	0		4	4.000	1.000	EA	F	YN	4.000	0	0	P2,21	00/00/00	99/99/99
510-000333	AMP 1-480702-0 4-P PLUG	0		5	1.000	1.000	EA	P	YN	1.000	0	0	J5	00/00/00	99/99/99
510-000533	AMP 1-480701-D-0 3-P RCPT	0		2	1.000	1.000	EA	P	YN	1.000	0	0	P21	00/00/00	99/99/99
770-000019	UL1180 #18 BLACK PRNTD	0		7	.600	1.000	FT	F	YN	.600	0	0		00/00/00	99/99/99
770-000020	UL1180 #18 WHITE PRNTD	0		8	.600	1.000	FT	F	YN	.600	0	0		00/00/00	99/99/99
770-000022	UL1180 #18 RED PRNTD	0		9	1.200	1.000	FT	F	YN	1.200	0	0		00/00/00	99/99/99

BILL OF MATERIAL

AS OF 06/07/96

CLASS CODE GROUP: 1 UNCLASSIFIED
CLASS CODE: 100 FIB ASSEMBLIES

160-005440 OPCODE: 0 IM REV: A 9000EX-SEM COL-ION PUMP HARN
MODEL:
ECO NO: 04378
DATE OF LAST ECO: 02/29/96

OP: ORDER POLICY CODE
REQ: N=PART OPTIONAL
Y=PART REQUIRED
PF: N=PART DOES NOT PRINT ON SALES ORDER
Y=PART PRINTS ON SALES ORDER W/O PRICE
P=PART PRINTS ON SALES ORDER WITH PRICE

PART NUMBER	DESCRIPTION	OP	RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR	UM	SC	REQ	DEFAULT QUANTITY	DAYS OFF SET	SEQ	REFERENCE DESIGNATOR	EFFECTIV DATE	OBSOLETE DATE
*** A ***	ASSEMBLY REVISION LEVEL	0		0	.000	1.000	EA	F	YN	.000	0	0		11/02/94	99/99/99
162-005440	SEM COL-ION PUMP HARN-LABEL KT	0	A	1	1.000	1.000	EA	X	YN	1.000	0	0		00/00/00	99/99/99
163-005440	SEM COL-ION PUMP HARN-SCHEM	0	A	0	.000	1.000	EA	ZB	YN	.000	0	0		00/00/00	99/99/99
164-005440	SEM COL-ION PUMP HARN-RUN LIST	0	A	0	.000	1.000	EA	F	YN	.000	0	0		00/00/00	99/99/99
510-000112	BERG 48235 SKT 26-22 AWG	0		5	15.000	1.000	EA	P	YN	15.000	0	0	DIPC-J8	00/00/00	99/99/99
510-000524	BERG 65846-001 24-P CA RCPT	0		4	1.000	1.000	EA	P	YN	1.000	0	0	DIPC-J8	00/00/00	99/99/99
510-000529	FISCHER S104A086-150/8.7U 16P	0		2	1.000	1.000	EA	P	YN	1.000	0	0	P1128	00/00/00	99/99/99
510-000530	FISCHER 200.1682 0.7 MALE CONT	0		3	.000	1.000	EA	F	YN	.000	0	0	P1128	00/00/00	99/99/99
770-000122	ALPHA 5478 8-PAIR SHLD 24AWG	0		6	26.400	1.000	FT	F	YN	26.400	0	0		00/00/00	99/99/99
780-000117	FISCHER 104.960 0.7 CONT CRIMP	0		7	.000	1.000	EA	P	YN	.000	0	0	P1128	00/00/00	99/99/99
780-000118	FISCHER 104.961 0.7 CONT POSIT	0		8	.000	1.000	EA	P	YN	.000	0	0	P1128	00/00/00	99/99/99
780-000119	FISCHER 104.963 0.7INSERT TOOL	0		9	.000	1.000	EA	P	YN	.000	0	0	P1128	00/00/00	99/99/99
780-000120	FISCHER 104.951 0.7 EXTR TOOL	0		10	.000	1.000	EA	P	YN	.000	0	0	P1128	00/00/00	99/99/99
780-000121	FISCHER TX00.013 13mm WRENCH	0		11	.000	1.000	EA	P	YN	.000	0	0	P1128	00/00/00	99/99/99

PROPRIETARY NOTICE
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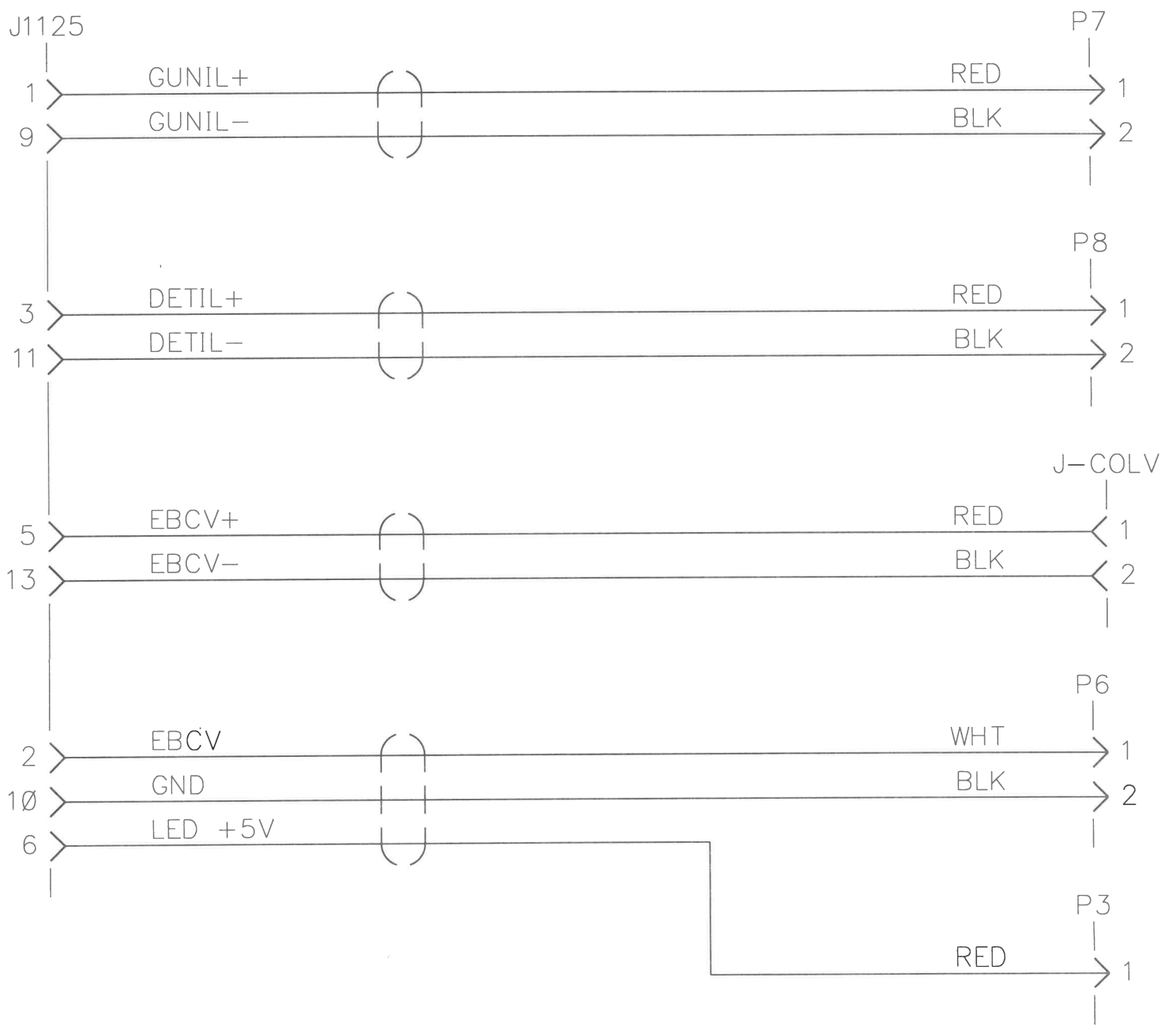
THIRD ANGLE PROJECTION

DO NOT SCALE THIS DRAWING

REVISIONS

ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
4378	RELEASED			



UNLESS OTHERWISE SPECIFIED

.X [X]	±	–	X/X ±	–
.XX [X.X]	±	–	X° ±	–
.XXX [X.XX]	±	–	FINISH	√

DIMENSIONS IN INCHES [mm] CONCENTRICITY .ØØ5 TIR
DEBURR AND BREAK ALL SHARP EDGES

1. FOR ASSOCIATED WIRE RUN LIST, SEE MICRION DRAWING NUMBER 164−ØØ545Ø.

FABRICATION NOTES

		DRFTR	DATE
		E.GILMAN	12/12/95
		CHKR	
		MECH ENGR	
	2ØØØEX	ELEC ENGR	
16Ø−ØØ545Ø	9ØØØEX		
NEXT ASSY	SYSTEM	MFG ENGR	
APPLICATION		APPROVED	
MATERIAL	–		
FINISH	–		

163−ØØ545Ø	A
PART NUMBER	REV
PART REV LEVEL	

Micrion

TITLE
9ØØØEX−SEM COL−
INTERLOCKS HARN

SIZE	DRAWING NO.
B	163−ØØ545Ø

SCALE NONE	WT	SHEET 1 OF 1

PROPRIETARY NOTICE
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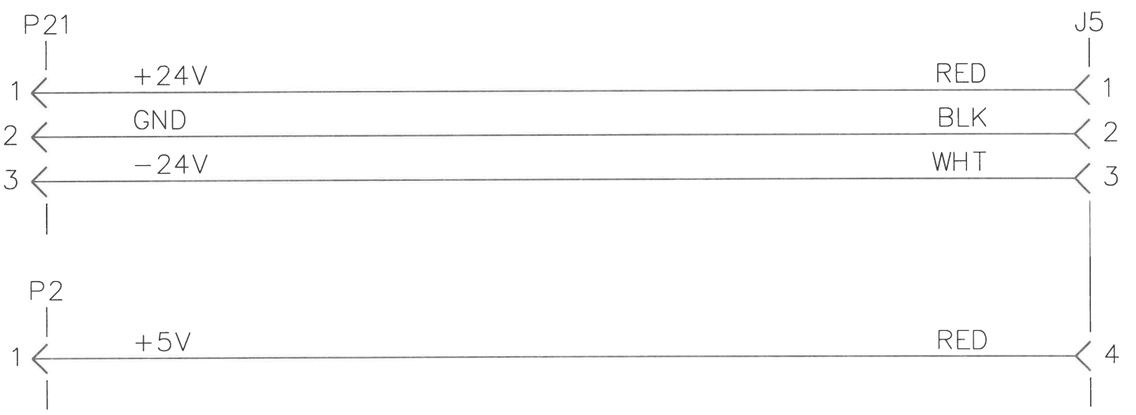
THIRD ANGLE PROJECTION

DO NOT SCALE THIS DRAWING

REVISIONS

ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
4378	RELEASED			



UNLESS OTHERWISE SPECIFIED

.X [X]	± –	X/X	± –
.XX [X.X]	± –	X°	± –
.XXX [X.XX]	± –	FINISH	√

DIMENSIONS IN INCHES [mm] CONCENTRICITY .ØØ5 TIR
DEBURR AND BREAK ALL SHARP EDGES

1. FOR ASSOCIATED WIRE RUN LIST, SEE MICRION DRAWING NUMBER 164−ØØ546Ø.

FABRICATION NOTES

		DRFTR	DATE
		E.GILMAN	12/12/95
		CHKR	
		MECH ENGR	
	2ØØØEX	ELEC ENGR	
16Ø−ØØ546Ø	9ØØØEX	MFG ENGR	
NEXT ASSY	SYSTEM		
APPLICATION		APPROVED	
MATERIAL	–		
FINISH	–		

163−ØØ546Ø	A
PART NUMBER	REV
PART REV LEVEL	

Micrion

TITLE
9ØØØEX−SEM COL−
DIPS DC POWER HARN

SIZE	DRAWING NO.
B	163−ØØ546Ø

SCALE	NONE	WT	SHEET 1 OF 1

BILL OF MATERIAL

AS OF 06/07/96

CLASS CODE GROUP: 1 UNCLASSIFIED
CLASS CODE: 100 FIB ASSEMBLIES

160-005450 OPCODE: 0 IM REV: A 9000EX-SEM COL-INTERLOCKS HARN
MODEL:
ECO NO: 04378
DATE OF LAST ECO: 02/29/96

OP: ORDER POLICY CODE
REQ: N=PART OPTIONAL
Y=PART REQUIRED
PF: N=PART DOES NOT PRINT ON SALES ORDER
Y=PART PRINTS ON SALES ORDER W/O PRICE
P=PART PRINTS ON SALES ORDER WITH PRICE

PART NUMBER	DESCRIPTION	OP	RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR	UM	SC	REQ PF	DEFAULT QUANTITY	DAYS OFF SET	SEQ	REFERENCE DESIGNATOR	EFFECTIV DATE	OBSOLETE DATE
*** A ***	ASSEMBLY REVISION LEVEL	0		0	.000	1.000	EA	F	YN	.000	0	0		11/02/94	99/99/99
162-005450	SEM COL-INTERLOCKS HARN-LBL KT	0	A	1	1.000	1.000	EA	X	YN	1.000	0	0		00/00/00	99/99/99
163-005450	SEM COL-INTERLOCKS HARN-SCHEM	0	A	0	.000	1.000	EA	ZB	YN	.000	0	0		00/00/00	99/99/99
164-005450	SEM COL-INTERLOCKS HARN-RNLIST	0	A	0	.000	1.000	EA	F	YN	.000	0	0		00/00/00	99/99/99
500-000109	AMPHENOL 17-1588-6 15-P HOOD	0		9	1.000	1.000	EA	P	YN	1.000	0	0	J1125	00/00/00	99/99/99
510-000084	AMP 1-480698-0 2-P CA RCPT	0		6	1.000	1.000	EA	P	YN	1.000	0	0	J-COLV	00/00/00	99/99/99
510-000086	AMP 350689-1 SKT 24-18AWG	0		7	2.000	1.000	EA	F	YN	2.000	0	0	J-COLV	00/00/00	99/99/99
510-000127	AMP 1-480699-0 2-P CA PLUG	0		4	4.000	1.000	EA	P	YN	4.000	0	0	P3,6,7,8	00/00/00	99/99/99
510-000151	AMP 350547-1 PIN 20-14AWG	0		5	7.000	1.000	EA	F	YN	7.000	0	0	P3,6,7,8	00/00/00	99/99/99
510-000170	AMP 205205-1 15-P CA RCPT	0		2	1.000	1.000	EA	P	YN	1.000	0	0	J1125	00/00/00	99/99/99
510-000173	AMP 205090-1 24-20AWG SKT	0		3	9.000	1.000	EA	F	YN	9.000	0	0	J1125	00/00/00	99/99/99
770-000069	ALPHA 1174 4-COND 22AWG	0		10	14.400	1.000	FT	F	YN	14.400	0	0		00/00/00	99/99/99
770-000071	BELDEN 9407 2-COND 22AWG	0		8	55.200	1.000	FT	F	YN	55.200	0	0		00/00/00	99/99/99

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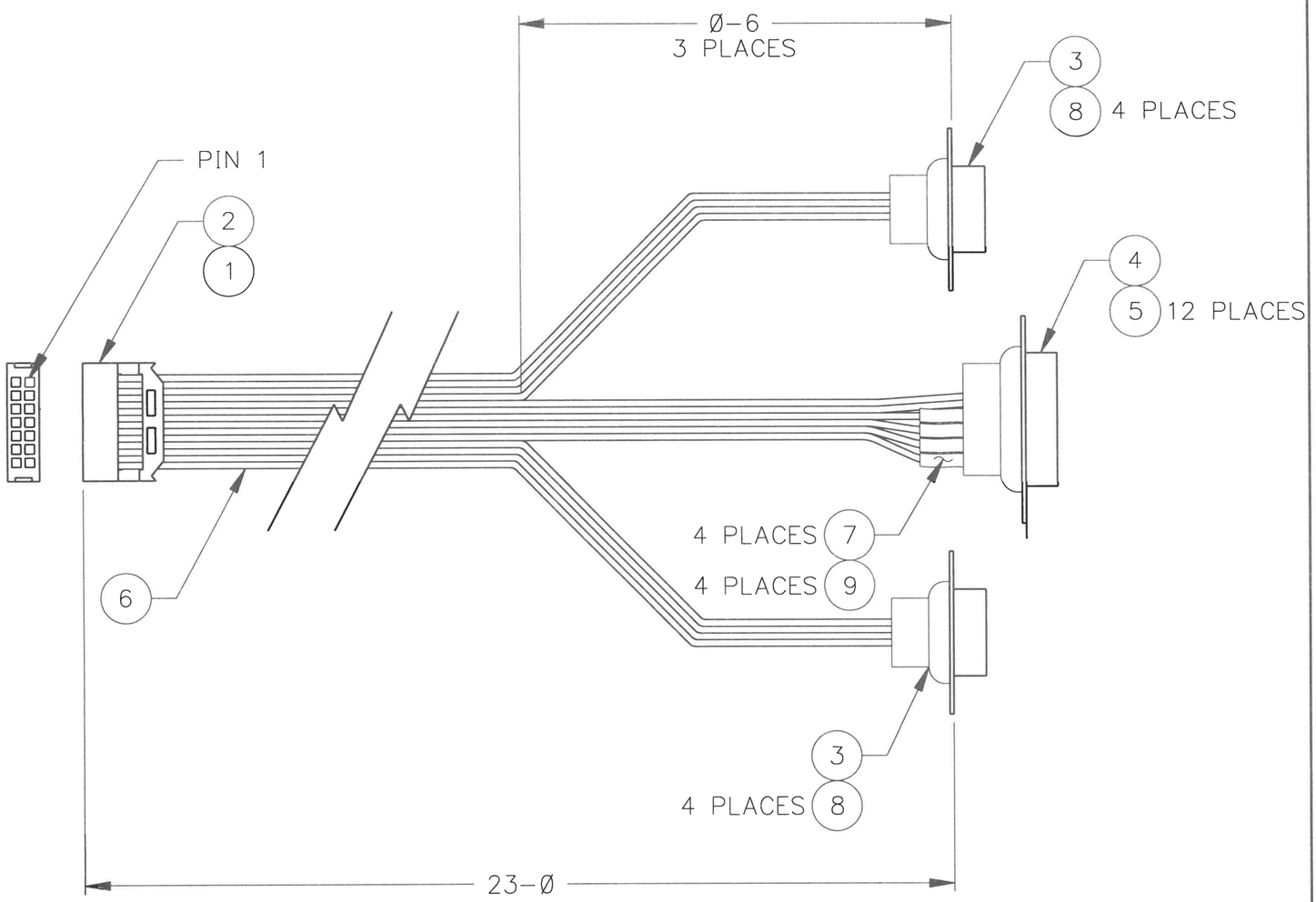
THIRD ANGLE PROJECTION

DO NOT SCALE THIS DRAWING

REVISIONS

ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
4433	RELEASED			



3 ALL DIMENSIONS IN FT-IN.

2 FABRICATE HARNESS PER MICRION STANDARD 83Ø-ØØØ22Ø.

1 FABRICATE HARNESS PER MICRION STANDARD 83Ø-ØØØ22Ø.

FABRICATION NOTES

UNLESS OTHERWISE SPECIFIED

.X [X]	± .1 [3]	X/X ±	1/16
.XX [X.X]	± .Ø1 [Ø.3]	X° ±	3Ø'
.XXX [X.XX]	± .ØØ5 [Ø.13]	FINISH	63 [1.6]

DIMENSIONS IN INCHES [mm] CONCENTRICITY .ØØ5 TIR
DEBURR AND BREAK ALL SHARP EDGES

		DRFTR	DATE
		T.B. RUSSELL	12/2Ø/94
		CHKR	
		MECH ENGR	
		ELEC ENGR	
16Ø-ØØ56ØØ	9ØØØ	MFG ENGR	
NEXT ASSY	SYSTEM		
APPLICATION		APPROVED	
MATERIAL	SEE BOM		
FINISH	–		

165-ØØ56ØØ	A
PART NUMBER	REV
PART REV LEVEL	

Micrion

TITLE
9ØØØ-EBEAM-
APERTURE HRN ASSY

SIZE	DRAWING NO.
B	165-ØØ56ØØ

SCALE	FULL	WT	SHEET 1 OF 1

FABRICATION NOTES

A1810J3			J2235
3	FOCCHA — TP	BLK	1
4	FOCCHB	WHT	2
5	MAGCHA — TP	BRN	3
6	MAGCHB	WHT	4
7	SPICHA — TP	RED	5
8	SPICHB	WHT	6
9	SKVCHA — TP	ORN	7
10	SKVCHB	WHT	8
11	B/XCHA — TP	YEL	9
12	B/XCHB	WHT	10
13	C/YCHA — TP	GRN	11
14	C/YCHB	WHT	12
15	SCRCHA — TP	BLU	13
16	SCRCHB	WHT	14
17	CH7CHA — TP	VIO	15
18	CH7CHB	WHT	16
19	CDØ — TP	GRA	17
20	CD1	WHT	18
21	CD2 — TP	BRN	19
22	CD3	BLK	20
23	CD4 — TP	RED	21
24	CD5	BLK	22
25	CD6 — TP	ORN	23
26	CD7	BLK	24
27	SLAØ — TP	YEL	25
28	SLA1	BLK	26
29	SLA2 — TP	GRN	27
30	SLR/W*	BLK	28
31	LEDCLK — TP	BLU	29
32	DBCLK	BLK	30
33	SP1 — TP	VIO	31
34	SP2	BLK	32
35	SHLD		33
A1810J5			
2	+5V — TP	WHT	34
1	+5VGND	BLK	35
4	5VGND — TP	BRN	36
3	+5V	WHT	37

REVISIONS

ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
4970	RELEASED			

PROPRIETARY NOTICE
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THIRD ANGLE PROJECTION

DO NOT SCALE THIS DRAWING

UNLESS OTHERWISE SPECIFIED

.X [X] ± – X/X ± –
.XX [X.X] ± – X° ± –
.XXX [X.XX] ± – FINISH √

DIMENSIONS IN INCHES [mm] CONCENTRICITY .005 TIR
DEBURR AND BREAK ALL SHARP EDGES

		DRFTR	DATE
		M.D. REGILLO	1/9/96
		CHKR	
		MECH ENGR	
		ELEC ENGR	
160-006130	9000EX	MFG ENGR	
NEXT ASSY	SYSTEM		
APPLICATION		APPROVED	
MATERIAL	–		
FINISH	–		

163-006130	A
PART NUMBER	REV
PART REV LEVEL	

Micrion

TITLE
9000EX-SYSCON-KNOB PANEL

SIZE	DRAWING NO.
C	163-006130

SCALE	NONE	WT	SHEET 1 OF 1

FABRICATION NOTES

1– FABRICATE HARNESS PER MICRION STANDARD 830–000220.

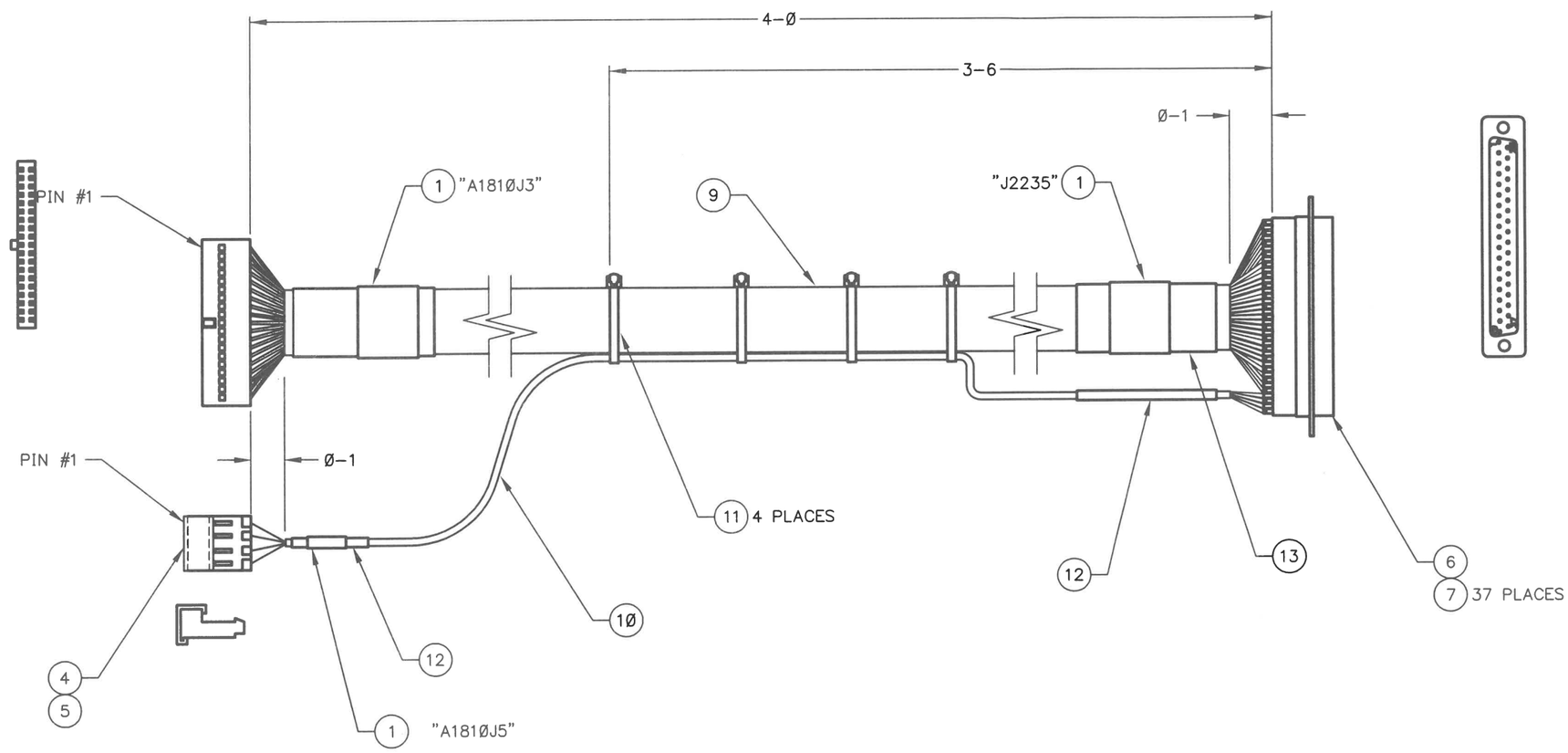
2– FOR ASSOCIATED SCHEMATIC, SEE MICRION DRAWING NUMBER 163–00613Ø.

3– FOR ASSOCIATED WIRE RUN LIST, SEE MICRION DRAWING NUMBER 164–00613Ø.

REVISIONS

DO NOT FABRICATE THIS PART IF "ENGR APPR" SIGNATURE IS MISSING FROM MOST RECENT REVISION

ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	ENGR APPR
497Ø	RELEASED		2/6/96	R.ROSS
(5179)	PER MARKED PRINT	JFC		



REFERENCE SCALE (INCHES)

Ø	1	2	3	4	5	6

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

ALL DIMENSIONS ARE FEET–INCHES

LENGTH	TOLERANCE
< 24"	+1/2" –Ø
24" – 12Ø"	+2" –Ø
> 12Ø"	+4" –Ø

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16Ø–00613Ø	9ØØØEX
NEXT ASSY	SYSTEM
APPLICATION	

DRFTR	M.D. REGILLO	1/9/96
CHKR		
MECH ENGR		
ELEC ENGR		
MFG ENGR		
HARNESS ENGR		

APPROVALS

165–00613Ø	A1
PART NUMBER	REV
PART REV LEVEL	

Micrion

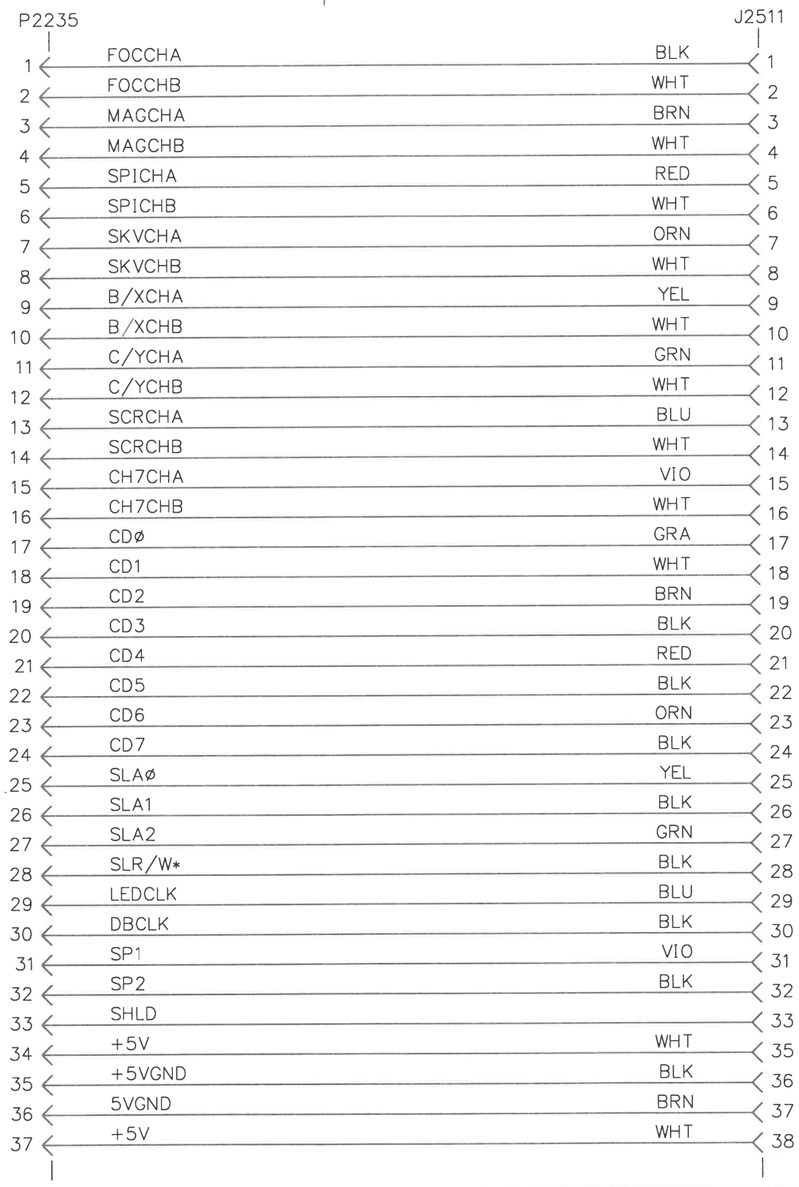
TITLE
9ØØØEX–SYSCON–
KNOB PANEL

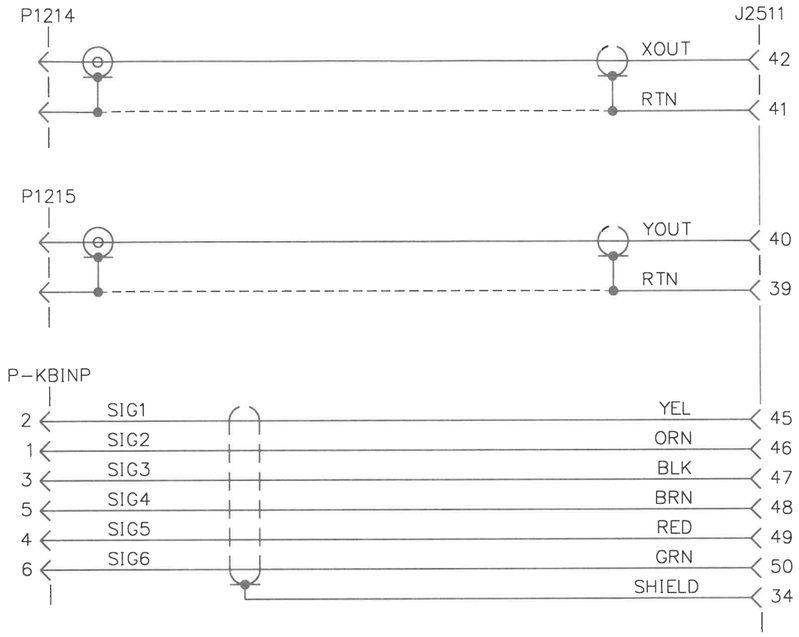
SIZE	DRAWING NO.
C	165–00613Ø

SCALE: NONE | WT: | SHEET 1 OF 1

FABRICATION NOTES

REVISIONS				
ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
4970	RELEASED			





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THIRD ANGLE PROJECTION

DO NOT SCALE THIS DRAWING

UNLESS OTHERWISE SPECIFIED

.X [X] ± – X/X ± –
.XX [X.X] ± – X° ± –
.XXX [X.XX] ± – FINISH √

DIMENSIONS IN INCHES [mm] CONCENTRICITY .005 TIR
DEBURR AND BREAK ALL SHARP EDGES

		DRFTR	DATE
		M.D. REGILLO	1/16/96
		CHKR	
		MECH ENGR	
		ELEC ENGR	
160-006140	9000EX	MFG ENGR	
NEXT ASSY	SYSTEM		
APPLICATION		APPROVED	
MATERIAL	–	163-006140	A
FINISH	–	PART NUMBER	REV
		PART REV LEVEL	

Micrion

TITLE
9000EX-EX MOD-
CONTROL PANEL

SIZE	DRAWING NO.	
C	163-006140	
SCALE NONE	WT	SHEET 1 OF 1

FABRICATION NOTES

1– FABRICATE HARNESS PER MICRION STANDARD 830–ØØØ22Ø.

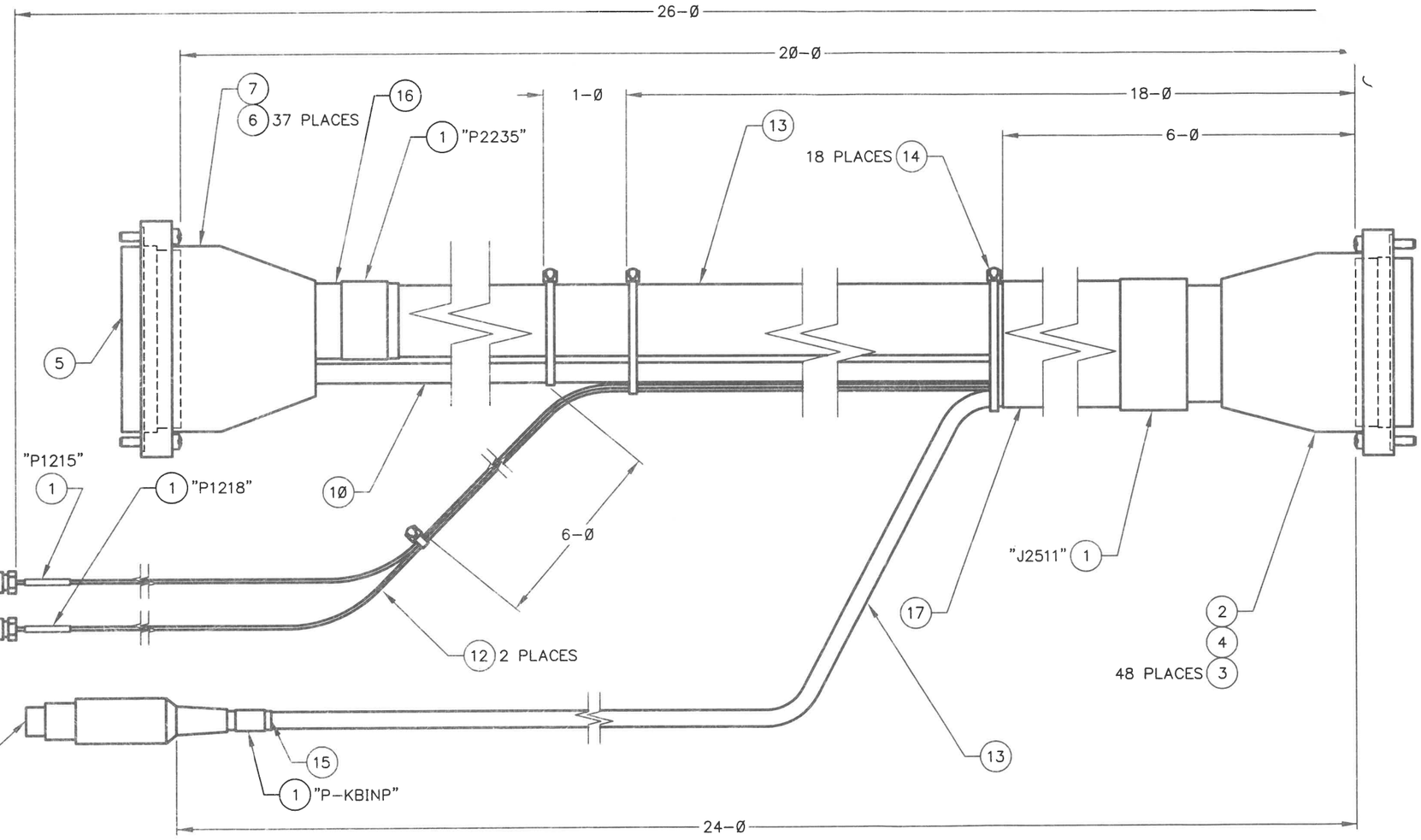
2– FOR ASSOCIATED SCHEMATIC, SEE MICRION DRAWING NUMBER 163–ØØ614Ø.

3– FOR ASSOCIATED WIRE RUN LIST, SEE MICRION DRAWING NUMBER 164–ØØ614Ø.

REVISIONS

DO NOT FABRICATE THIS PART IF "F… IS MISSING FROM MOST …

ECO	DESCRIPTION OF CHANG…
497Ø	RELEASED …
(5179)	PER MARKED PRINT



THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

ALL DIMENSIONS ARE FEET–INCHES

LENGTH	TOLERANCE
< 24"	+1/2" –Ø
24" – 12Ø"	+2" –Ø
> 12Ø"	+4" –Ø

PROPRIETARY NOTICE

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16Ø–ØØ614Ø	9ØØØEX
NEXT ASSY	SYSTEM
APPLICATION	

DRFTR	M.D.REGILLO	DATE 1/16/96
CHKR		
MECH ENGR		
ELEC ENGR	R.ROSS	2/6/96
MFG ENGR		
HARNESS ENGR		

APPROVALS

165–ØØ614Ø	A1
PART NUMBER	REV
PART REV LEVEL	

Micrion

TITLE
9ØØØEX–EX MOD–
CONTROL PANEL

SIZE	DRAWING NO.
C	165–ØØ614Ø

SCALE: NONE | WT: | SHEET 1 OF 1

REFERENCE SCALE (INCHES)
Ø 1 2 3 4 5 6

PROPRIETARY NOTICE
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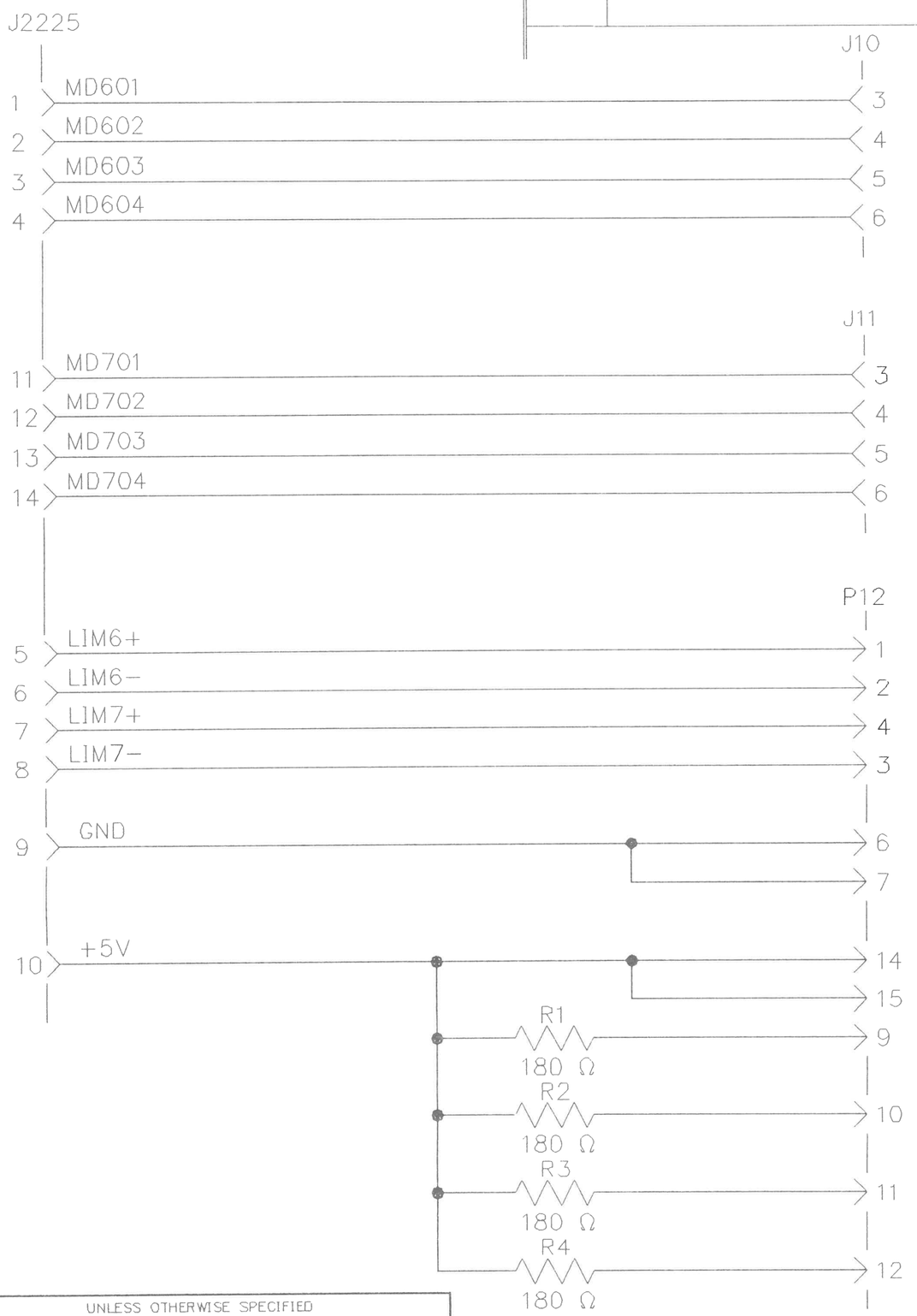
THIRD ANGLE PROJECTION

DO NOT SCALE THIS DRAWING

A1

REVISIONS

ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
4433	RELEASED	TBR	12/23/94	B.WELLS
5175	PER MARKED PRINT	TBR	5/16/97	B. Wells



UNLESS OTHERWISE SPECIFIED

.X [X] ± .1 [3]	X/X ± 1/16
.XX [X.X] ± .01 [0.3]	X° ± 30'
.XXX [X.XX] ± .005 [0.13]	FINISH 63 [1.6]

DIMENSIONS IN INCHES [mm] CONCENTRICITY .005 TIR
DEBURR AND BREAK ALL SHARP EDGES

FABRICATION NOTES

		DRFTR T.B. RUSSELL	DATE 12/15/94
		CHKR Jeff Colburn	5/17/97
		MECH ENGR	
		ELEC ENGR B. Wells	5/16/97
160-005600	9000	MFG ENGR	
NEXT ASSY	SYSTEM		
APPLICATION		APPROVED	
MATERIAL —			
FINISH —			

163-005600	A1
PART NUMBER	REV
PART REV LEVEL	

Micrion

TITLE
EBEAM–APERTURE HARNESS–SCHEMATIC

SIZE	DRAWING NO.	
B	163-005600	
SCALE NONE	WT	SHEET 1 OF 1

BILL OF MATERIAL

AS OF 06/07/96

CLASS CODE GROUP: 1 UNCLASSIFIED
CLASS CODE: 100 FIB ASSEMBLIES

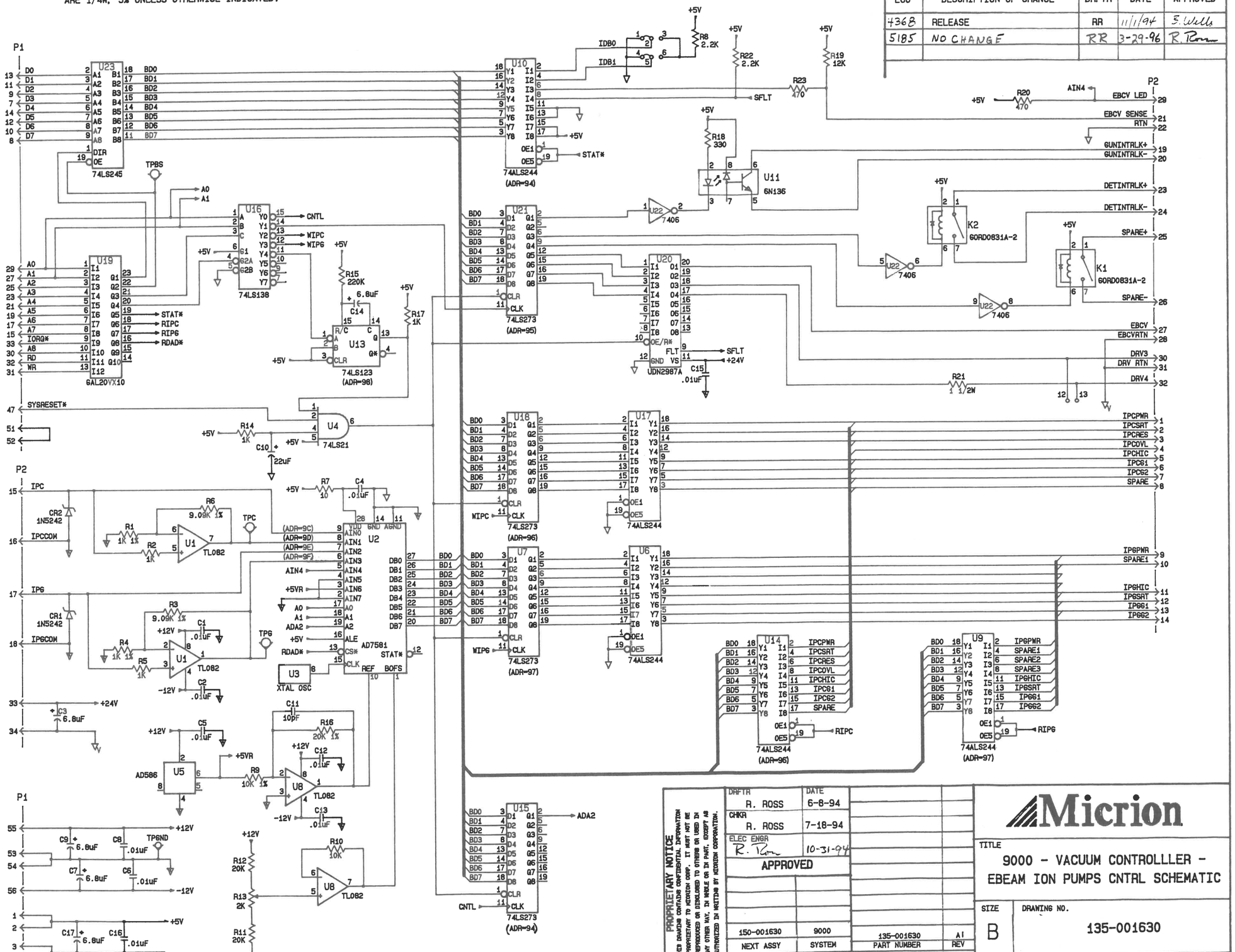
160-005430 OPCODE: 0 IM REV: A 9000EX-EBEAM VAC KIT-HARNESS
MODEL:
ECO NO: 04378
DATE OF LAST ECO: 02/29/96

OP: ORDER POLICY CODE
REQ: N=PART OPTIONAL
Y=PART REQUIRED
PF: N=PART DOES NOT PRINT ON SALES ORDER
Y=PART PRINTS ON SALES ORDER W/O PRICE
P=PART PRINTS ON SALES ORDER WITH PRICE

PART NUMBER	DESCRIPTION	OP	RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR	UM	SC	REQ	DEFAULT QUANTITY	DAYS OFF SET	SEQ	REFERENCE DESIGNATOR	EFFECTIV DATE	OBSOLETE DATE
*** A ***	ASSEMBLY REVISION LEVEL	0		0	.000	1.000	EA	F	YN	.000	0	0		11/02/94	99/99/99
162-005430	EBEAM VAC KIT-HARN-LABEL KIT	0	A	1	1.000	1.000	EA	X	YN	1.000	0	0		00/00/00	99/99/99
163-005430	EBEAM VAC KIT-HARN-SCHEM	0	A	0	.000	1.000	EA	ZB	YN	.000	0	0		00/00/00	99/99/99
164-005430	EBEAM VAC KIT-HARN-RUN LIST	0	A	0	.000	1.000	EA	F	YN	.000	0	0		00/00/00	99/99/99
500-000006	3M 3341-1L JACK SOCKET KIT	0		17	1.000	1.000	EA	P	YN	1.000	0	0	J1128	00/00/00	99/99/99
510-000112	BERG 48235 SKT 26-22 AWG	0		3	34.000	1.000	EA	F	YN	34.000	0	0	A1630J2	00/00/00	99/99/99
510-000168	AMP 205206-1 15-P CA PLUG	0		6	1.000	1.000	EA	P	YN	1.000	0	0	P1125	00/00/00	99/99/99
510-000172	AMP 205089-1 24-20AWG PIN	0		7	14.000	1.000	EA	F	YN	14.000	0	0	P1125	00/00/00	99/99/99
510-000308	BERG 65846-003 38-P CA RCPT	0		2	1.000	1.000	EA	P	YN	1.000	0	0	A1630J2	00/00/00	99/99/99
510-000528	FISCHER DG104A086-150 16P RCPT	0		4	1.000	1.000	EA	P	YN	1.000	0	0	J1128	00/00/00	99/99/99
510-000531	FISCHER 200.1683 0.7 FEMALE	0		5	.000	1.000	EA	F	YN	.000	0	0	J1128	00/00/00	99/99/99
520-000006	AMP 36152 22-18AWG #6 LUG	0		12	2.000	1.000	EA	F	YN	2.000	0	0		00/00/00	99/99/99
770-000041	UL1180 #22 BROWN	0		11	3.000	1.000	FT	F	YN	3.000	0	0		00/00/00	99/99/99
770-000043	UL1180 #22 VIOLET	0		10	3.000	1.000	FT	F	YN	3.000	0	0		00/00/00	99/99/99
770-000057	ALPHA 5583 15-COND SHLD 22AWG	0		9	3.000	1.000	FT	F	YN	3.000	0	0		00/00/00	99/99/99
770-000122	ALPHA 5478 8-PAIR SHLD 24AWG	0		8	3.000	1.000	FT	F	YN	3.000	0	0		00/00/00	99/99/99
780-000117	FISCHER 104.960 0.7 CONT CRIMP	0		13	.000	1.000	EA	P	YN	.000	0	0	J1128	00/00/00	99/99/99
780-000118	FISCHER 104.961 0.7 CONT POSIT	0		14	.000	1.000	EA	P	YN	.000	0	0	J1128	00/00/00	99/99/99
780-000119	FISCHER 104.963 0.7INSERT TOOL	0		15	.000	1.000	EA	P	YN	.000	0	0	J1128	00/00/00	99/99/99
780-000120	FISCHER 104.951 0.7 EXTR TOOL	0		16	.000	1.000	EA	P	YN	.000	0	0	J1128	00/00/00	99/99/99

NOTES 1. RESISTOR VALUES IN OHMS. ALL RESISTORS ARE 1/4W, 5% UNLESS OTHERWISE INDICATED.

REVISIONS				
ECO	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
4368	RELEASE	RR	11/1/94	S. Wells
5185	NO CHANGE	RR	3-29-96	R. Ross



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DRFTR	R. ROSS	6-8-94
CHKR	R. ROSS	7-18-94
ELEC ENGR	R. Ross	10-31-94
APPROVED		

150-001630	9000
NEXT ASSY	SYSTEM
APPLICATION	

135-001630	A1
PART NUMBER	REV
PART REV LEVEL	

Micrion

TITLE
9000 - VACUUM CONTROLLLER - EBEAM ION PUMPS CNTRL SCHEMATIC

SIZE	DRAWING NO.
B	135-001630

SCALE | WT | SHEET 1 OF 1